

May 29, 2025

New Mexico Oil Conservation Division

506 W. Texas Ave Artesia, NM 88210

RE: RDX Federal 21 #022 - Deferral Request Report

Incident Number: nAPP2506224384 GPS: 32.0307274°, -103.8895874° Eddy County, New Mexico

Project No. VP-63

To Whom It May Concern:

Earth Systems Response and Restoration (ESRR), presents the following Deferral Request Report (DRR) to document the findings during a recent liner inspection in conjunction with soil sampling events conducted at RDX Federal 21 #022 (Site) following an inadvertent release of produced water within a lined secondary containment (LSC). Based on analytical results from recent soil sampling activities, WPX Energy Permian (WPX) is requesting to defer residual impacted soil directly beneath the LSC and No Further Action (NFA) until the Site undergoes major deconstruction or plugging and abandonment (P&A), whichever comes first.

Site Location

The Site is located in Unit F, Section 21, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0307274°, -103.8895874°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (Figure 1).

Incident Description & Background

On March 2, 2025, a water transfer pump failed, releasing approximately 67 barrels (bbls) of produced water within a LSC (**Figure 2**). A vacuum truck was immediately dispatched to the Site recovering the 67 bbls of produced water.

Notice was given to the New Mexico Oil Conservation Division (NMOCD) on March 3, 2025, by Notification of Release (NOR) and subsequently assigned Incident Number nAPP2506224384. A Corrective Action Form C-141 (Form C-141) was submitted and approved by the NMOCD on March 4, 2025.

WPX coordinated the LSC to be power washed, clearing all debris and residual fluid for an accurate inspection and submitted a liner inspection notification (Form C-141L) which was approved by NMOCD on March 10, 2025, for a March 14, 2025 inspection date.

WPX requested a Variance to the 2-business day sampling notification, specifically addressing NMAC 19.15.29.12D (1a), on May 12, 2025, which was approved by the NMOCD same day.



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:

- Between 1,000 feet and ½ mile of any continuously flowing watercourse or any other significant watercourse;
- Between 1,000 feet and ½ mile of any 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;
- Detween 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;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- o Between 100 and 200 feet of any wetland;
- Greater than 5 miles of any subsurface mine;
- Overlying an unstable area (i.e. critical/ high/ medium 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 3** and **Figure 4**. **Referenced Well Records** for the closest depth to water well are attached.

Based on the results from the desktop review, the Site is designated with medium karst potential and between 100 and 200 feet of a wetland. Depth to water is estimated to be greater than 100 feet below ground surface. The following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria [‡]
Chloride	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	100 mg/kg
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	50 mg/kg

[‡]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.

TPH= Gasoline Range Organics + Diesel Range Organics + Oil Range Organics
Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Liner Inspection

On March 14, 2025, ESRR conducted a thorough visual inspection of the LSC for tears, cracks, cuts, breaks, and other signs of damage, confirming the presence or absence of any evidence for a potential breach to the LSC. The LSC failed inspection and was considered to not be performing as designed due to cuts and tears observed (Figure 2). No fluids were observed to have escaped laterally to the pad surface or adjacent native soils. Photographic Documentation of liner inspection activities is attached.

Delineation Activities

On May 2, 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC, directly beneath and surrounding the LSC. Eight delineation boreholes (HA-1 through HA-8) were advanced via hand auger. Delineation activities were driven by field screening

Page 2 of 4



soil for chloride utilizing QuanTab® test strips and for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID). 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 Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of delineation activities is attached.

Laboratory analytical results for delineation soil samples collected surrounding the AOC (HA-3 through HA-8) were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for delineation soil samples collected within the AOC and directly beneath the LSC (HA-1 and HA-2) indicated Chloride was above the Site Closure Criteria and/or the reclamation standard up to 4 feet bgs. Elevated Chloride concentrations were characterized by concentrations ranging from 1,930 mg/kg to 4,810 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 5**.

Deferral Request

Based on laboratory analytical results, residual soil impacts associated with the AOC appear to solely reside below the LSC up to 4 feet bgs (**Figure 6**) based on delineation soil sample locations HA-1 and HA-2. As a result, WPX respectfully requests deferral of up to approximately 670 CY of residual soil impacted beneath the LSC and up to 4 feet bgs until the Site undergoes major facility deconstruction or P&A, whichever comes first.

Based on initial release response, WPX believes the completed remedial actions meet the Deferral requirements set forth in NMAC regulations in order to be protective of human health, the environment, and groundwater. WPX does not believe deferment will result in imminent risk to human health, the environment or groundwater. Therefore, NFA appears warranted at this time and WPX requests the Site to be respectfully considered for Deferral by the NMOCD until the Site undergoes major deconstruction or P&A activities, whichever comes first. If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or moreno@earthsys.net. NMOCD Documentation of correspondence are attached.

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

Gilbert Moreno

Carlsbad Operations Manager/ Project Geologist

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

Kris Williams, CHMM, REM Principal

Kris Williams

Page 3 of 4



Attachments:

Figure 1 - Site Map

Figure 2 - Release Extent

Figure 3 - Ground Water

Figure 4 - Karst Potential

Figure 5 - Delineation Soil Sample Locations

Figure 6 - Deferral Extent

Referenced Well Records

Photographic Documentation

NMOCD Documentation & Correspondence

Executed Chain-of-Custody Forms and Laboratory Analytical Reports





Figure 1 – Site Map







Figure 2 – Release Extent





Figure 3 - Ground Water

Devon Energy Permian – RDX Federal 21 #022 GPS: 32.0307274,-103.8895874 Eddy County, New Mexico



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Figure 4– Karst Potential





Figure 5 – Delineation Soil Sample Locations





Figure 6 – Deferral Extent



7		HR							MONITORING W	ELL COMPLETION	N DIAGE	RAM	
\nearrow			-	IAN	C F		Boring/Wel		W-1	Location: RDX 17	#3		
		\$ 0	LIII		N S		Date:			Client:			
Drilling Me	athod:	0 0	Sampling N	Aathod:			Logged By:		3/2020	WPX Energy Drilled By:			
	Air Rotar	y	Sampling i		one		Logged By.		nn, PG	Talon L	PE		
Gravel Pacl			Gravel Pac	k Depth Inte			Seal Type:		Seal Depth Interval:	Latitude:			
Casing Typ	0/20 Sar	nd Diameter:		3 B Depth Inter	ags			one al Depth (ft. BC	None None	32.0367 Longitude:	65		
PVC		2-inch		0-102 fe	eet bgs			10	07	-103.895	993		
Screen Typ	e:	Slot:	1.	Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date:	2020	
PVC		0.010-ii	ncn	2-inch		107 ft		10) / 	> 107	12/16/2	2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	(mdd) QIA	NSCS	Sample ID	Litholog	y/Remarks	We Comple		
5											<u> </u>		
10										•	 		
15	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand		 		
20										•	 		
25										•	 		
30	NM	L	D	N	N	NM	SP	NS	Same as above with slight increase in				
35	11111	L	D	11	11	TNIVI	51	145	coarse sand	d and gravel			
40	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand with very slight silt				
50										, siigiiv siiv			
55	NM	L	D	N	N	NM	SP	NS	Pale orange poor	ly graded fine sand			
60	NM	L	D	N	N	NM	SW	NS	Pale orange well	l graded fine sand	<u> </u>		
65													
70									Dala rad aran a1	ayey silty fine sand	<u> </u>		
75	NM	M	SL M	N	N	NM	SM			se sand and gravel	<u> </u>		
80													
85													
90													
95 100	NM	L	SL M	N	N	NM	SP	NS		y sorted fine sand - 07' BGS			
105										•			

7		HR	L						MONITORING W	ELL COMPLETION	N DIAGRA	AM
\nearrow				IAN	CE		Boring/Wel		IW-1	Location: RDX Federal C	Com 21-43	
	704	S 0	LU	1017	V S		Date:			Client: WDV Energy		
Drilling Me	ethod:		Sampling	Method:			Logged By:		9/2020	WPX Energy Drilled By:		
_	Air Rotar	y	1 5		ne		88 7		nn, P.G.	Talon L	PE	
Gravel Pack			Gravel Pac	ck Depth Inte			Seal Type:	т	Seal Depth Interval:	Latitude:		
Casing Typ	0/20 Sar	Diameter:		3 B Depth Inter				None al Depth (ft. Bo	None None	32.0225 Longitude:	5/1	
PVC		2-inch		0-100 fe			Boring Tou		10	-103.884	371	
Screen Typ	e:	Slot:		Diameter:	•	Interval:	Well Total	Depth (ft. BGS			DTW Date:	
PVC	I	0.010-ir	nch	2-inch	100 -	105 ft		1	05	> 105	12/16/20	020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Complet	
0 5 10 15	NM	L	D	N	N	NM	SP	NS		n poorly graded fine and		
20	NM	Н	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche			
25 30 35 40 45	NM	L	D	N	N	NM	SP	NS		e red poorly graded sand	- - -	
50 55 60	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay			
65 70 75	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay			
80 85 90	NM	М	D	N	N	NM	SC	NS	_	olor fine sand with and and clay		
95	NM	Н	D	N	N	NM	CL	NS	Brown orange clay w	ith silt and fine sand	T	
100	NM	Н	D	N	N	NM	SC	NS	Golden yellow and buff colored clay with fine sand - TD Boring: 110' BGS; Sand 110' - 105' BGS			





PHOTO 1: Southwestern view during initial site assessment by WPX. 3/2/2025



PHOTO 2: Southwestern view during initial site assessment by WPX. 3/2/2025





PHOTO 3: Northwestern view outside of containment during liner inspection activities. 3/14/2025



PHOTO 4: Northeastern view outside of containment during liner inspection activities. 3/14/2025





PHOTO 5: Southeastern view outside of containment during liner inspection activities. 3/14/2025



PHOTO 6: Southwestern view outside of containment during liner inspection activities. 3/14/2025





PHOTO 7: Northeastern view outside of containment during liner inspection activities. 3/14/2025



PHOTO 8: Southwestern view during liner inspection activities. 3/14/2025





PHOTO 9: Northeastern view during liner inspection activities. 3/14/2025



PHOTO 10: Southeastern view during liner inspection activities. 3/14/2025





PHOTO 11: Southwestern view during liner inspection activities. 3/14/2025



PHOTO 12: Northwestern view during liner inspection activities. 3/14/2025





PHOTO 13: Northeastern view during liner inspection activities. 3/14/2025



PHOTO 14: Southwestern view during liner inspection activities. 3/14/2025



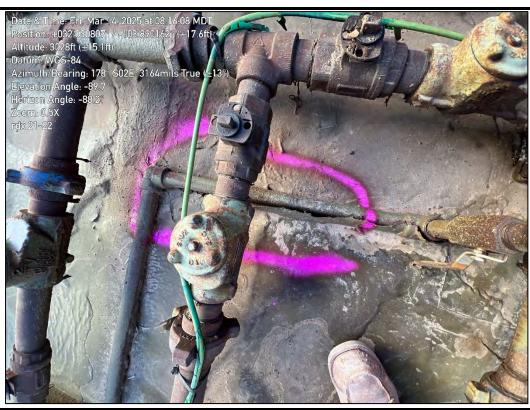


PHOTO 15: Southeastern view of failed liner integrity. 3/14/2025



PHOTO 16: Southwestern view of failed liner integrity. 3/14/2025





PHOTO 17: Northwestern view of failed liner integrity. 3/14/2025



PHOTO 18: Southwestern view during delineation activities. 5/2/2025



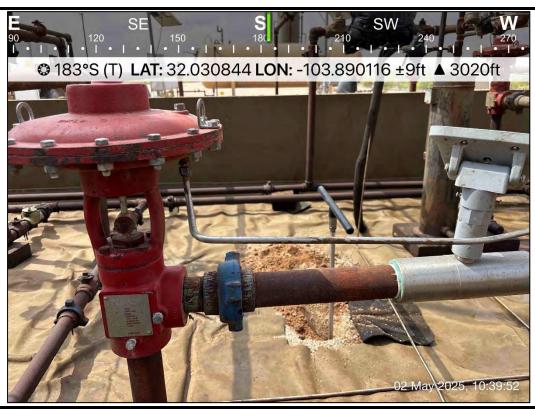


PHOTO 19: Southern view during delineation activities. 5/2/2025



PHOTO 20: Western view during delineation activities. 5/2/2025



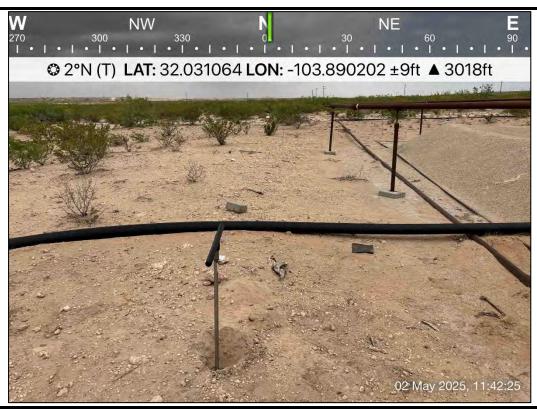


PHOTO 21: Northern view during delineation activities. 5/2/2025



PHOTO 22: Northern view during delineation activities. 5/2/2025





PHOTO 23: Northwestern view during delineation activities. 5/2/2025

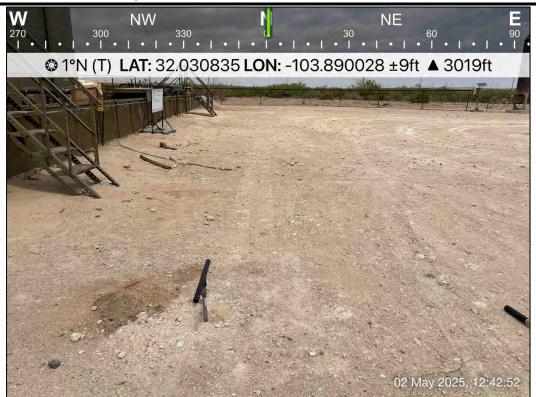


PHOTO 24: Northern view during delineation activities. 5/2/2025





PHOTO 25: Northeastern view during delineation activities. 5/2/2025



PHOTO 26: Northeastern view during delineation activities. 5/2/2025





PHOTO 27: Southwestern view of liner repair. 5/2/2025



PHOTO 28: Southern view of liner repair. 5/2/2025





PHOTO 29: Western view of liner repair. 5/2/2025

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Table 1 SOIL SAMPLE ANALYTICAL RESULTS RDX Federal 21 #022 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)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closu Release (NMAC 19.15.		ils Impacted by a	10	50	NE	NE	NE	100	600
				Delineation Soil	Samples - nAPP25062	24384			
HA-1	05/02/25	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	448
HA-1	05/02/25	1	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	4,810
HA-1	05/02/25	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	2,380
HA-1	05/02/25	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3,290
HA-1	05/02/25	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	281
HA-2	05/02/25	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	2,150
HA-2	05/02/25	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1,930
HA-2	05/02/25	2	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	326
HA-2	05/02/25	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	118
HA-2	05/02/25	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	101
HA-3	05/02/25	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	102
HA-3	05/02/25	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	116
HA-3	05/02/25	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	129
HA-4	05/02/25	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	93.5
HA-4	05/02/25	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	274
HA-4	05/02/25	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	144
HA-5	05/02/25	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	229
HA-5	05/02/25	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	163
HA-6	05/02/25	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	88.0
HA-6	05/02/25	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	83.1
HA-7	05/02/25	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	95.1
HA-7	05/02/25	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	108
HA-8	05/02/25	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	92.9
HA-8	05/02/25	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	121
HA-8	05/02/25	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	146

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[‡] for Soils Impacted by a Release

[†]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.

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 440768

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	440768
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2506224384				
Incident Name	NAPP2506224384 RDX FEDERAL 21 #022 @ 30-015-40561				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Approved				
Incident Well	[30-015-40561] RDX FEDERAL 21 #022				

Location of Release Source				
Site Name RDX FEDERAL 21 #022				
Date Release Discovered	03/02/2025			
Surface Owner	Federal			

Liner Inspection Event Information						
Please answer all the questions in this group.						
What is the liner inspection surface area in square feet	4,520					
Have all the impacted materials been removed from the liner	Yes					
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	03/14/2025					
Time liner inspection will commence	08:00 AM					
Please provide any information necessary for observers to liner inspection	Gilbert Moreno (832) 541-7719					
Please provide any information necessary for navigation to liner inspection site	32.0307274°,-103.8895874°					

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 440768

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	440768
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Creat By	d Condition	Condition Date
jrale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	3/10/2025



Re: [EXTERNAL] Re: RDX FEDERAL 21 #022 - Incident Number nAPP2506224384

From Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Date Mon 5/12/2025 1:26 PM

Good afternoon Gilbert,

Your variance request toward 19.15.29.12D (1a) NMAC is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Gilbert Moreno <gmoreno@earthsys.net>

Sent: Monday, May 12, 2025 12:40 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Subject: [EXTERNAL] Re: RDX FEDERAL 21 #022 - Incident Number nAPP2506224384

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

Nelson,

As requested, please see attached PDF pertaining to the Variance Request of Notification of Sampling (C-141N) for the RDX Federal 21 #022.

PDF Includes:

- Figure 2
 - Representing Delineation Sample Locations and Areas with Failed Liner Integrity
- Table 1
 - Includes Analytical Results for depths collected at each Delineation Soil Sample Location
- Photographs
 - Liner Inspection Activities of Failed Liner Integrity Areas
 - Delineation Activities

Upon acceptance of the data presented, ESRR will have WPX submit a C-141N providing a minimum 48-hour notice from the date of approval and include a short summary within the question of "Please provide any information necessary for navigation to sampling site".

Regards,

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



From: Gilbert Moreno gmoreno@earthsys.net>

Sent: Monday, May 12, 2025 6:25 AM

To: Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov>

Subject: Re: RDX FEDERAL 21 #022 - Incident Number nAPP2506224384

Good morning,

Lab results are in with impacts only beneath the containment. I will get everything requested sent over by EOD.

Thanks,

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

Released to Imaging: 7/11/2025 2:47:42 PM

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 461597

Ql	JESTIONS				
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory		OGRID: 246289 Action Number:			
Oklahoma City, OK 73102		461597			
		Action Type: [NOTIFY] Notification Of Sampling (C-141N)			
QUESTIONS					
Prerequisites					
Incident ID (n#)	nAPP2506224384				
Incident Name	NAPP2506224384 RD	X FEDERAL 21 #022 @ 30-015-40561			
Incident Type	Produced Water Rele	ase			
Incident Status	Initial C-141 Approved				
Incident Well	[30-015-40561] RDX F	EDERAL 21 #022			
Location of Release Source					
Site Name	RDX FEDERAL 21 #022				
Date Release Discovered	03/02/2025				
Surface Owner	Federal				
[a					
Sampling Event General Information					
Please answer all the questions in this group. What is the sampling surface area in square feet	9,000				
What is the estimated number of samples that will be gathered	25				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025				
Time sampling will commence	08:00 AM				
Warning: Notification can not be less than two business days prior to conducting final sampling	g.				
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 5	41-7719			
Please provide any information necessary for navigation to sampling site	NMOCD has since gra	MOCD of previous sampling activities completed on May 2, 2025. Inted a variance request toward 19.15.29.12D (1a) NMAC for			

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 461597

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	461597
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Create By		Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/13/2025

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Earth Systems Response and Restoration 4115 South County Road 1297 Odessa, Texas 79765

Generated 5/12/2025 12:40:16 PM Revision 1

JOB DESCRIPTION

RDX FEDERAL 21 #022 Eddy County, NM

JOB NUMBER

890-8085-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Brianna Tel

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com (432)704-5440 Generated 5/12/2025 12:40:16 PM Revision 1

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Client: Earth Systems Response and Restoration Project/Site: RDX FEDERAL 21 #022

Laboratory Job ID: 890-8085-1 SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis ₩

%R Percent Recovery **CFL** Contains Free Liquid Colony Forming Unit **CFU** Contains No Free Liquid CNF

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Released to Imaging: 7/11/2025 2:47:42 PM

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Case Narrative

Client: Earth Systems Response and Restoration

Project: RDX FEDERAL 21 #022

Job ID: 890-8085-1 Eurofins Carlsbad

Job Narrative 890-8085-1

REVISION

The report being provided is a revision of the original report sent on 5/9/2025. The report (revision 1) is being revised due to Revised to correct sample depths.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/2/2025 2:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-8085-1), HA-1 (890-8085-2), HA-1 (890-8085-3), HA-1 (890-8085-4), HA-1 (890-8085-5), HA-2 (890-8085-6), HA-2 (890-8085-7), HA-2 (890-8085-7), HA-2 (890-8085-1), HA-2 (890-8085-10), HA-3 (890-8085-11), HA-3 (890-8085-12), HA-3 (890-8085-13), HA-4 (890-8085-14), HA-4 (890-8085-15), HA-4 (890-8085-16), HA-5 (890-8085-17), HA-5 (890-8085-18), HA-6 (890-8085-19), HA-6 (890-8085-20), HA-7 (890-8085-22), HA-8 (890-8085-23), HA-8 (890-8085-24) and HA-8 (890-8085-25).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-109409 and analytical batch 880-109477 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-109378/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109379 and analytical batch 880-109646 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-109379/2-A) and (LCSD 880-109379/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-109644 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-109644/59).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109429 and analytical batch 880-109438 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS)

Case Narrative

Client: Earth Systems Response and Restoration

Project: RDX FEDERAL 21 #022

Job ID: 890-8085-1 (Continued)

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Job ID: 890-8085-1

recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-1

Date Collected: 05/02/25 10:00 Date Received: 05/02/25 14:43

Sample Depth: 0.5

Lab Sample ID: 890-8085-1 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RI MDL Unit D Prepared Analyzed Dil Fac <0.00198 UF2 F1 05/06/25 23:24 Benzene 0.00198 05/05/25 10:09 mg/Kg Toluene <0.00198 U F2 F1 0.00198 mg/Kg 05/05/25 10:09 05/06/25 23:24 Ethylbenzene 05/06/25 23:24 <0.00198 U F2 F1 0.00198 mg/Kg 05/05/25 10:09 m-Xylene & p-Xylene <0.00396 U F2 F1 0.00396 mg/Kg 05/05/25 10:09 05/06/25 23:24 05/06/25 23:24 o-Xylene <0.00198 U F2 F1 0.00198 mg/Kg 05/05/25 10:09 Xylenes, Total <0.00396 U F2 F1 0.00396 mg/Kg 05/05/25 10:09 05/06/25 23:24 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 05/05/25 10:09 05/06/25 23:24 4-Bromofluorobenzene (Surr) 118 70 - 130 1,4-Difluorobenzene (Surr) 90 70 - 130 05/05/25 10:09 05/06/25 23:24 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed

Dil Fac Total BTEX <0.00396 U 0.00396 mg/Kg 05/06/25 23:24

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier **MDL** Unit Dil Fac RL D Prepared Analyzed Total TPH <49.8 U 49.8 05/07/25 22:44 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) **MDL** Unit Analyte Result Qualifier RL D Analyzed Dil Fac Prepared <49.8 U 05/05/25 08:34 05/07/25 22:44 Gasoline Range Organics 498 mg/Kg (GRO)-C6-C10 05/05/25 08:34 05/07/25 22:44 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg C10-C28) 49.8 mg/Kg 05/05/25 08:34 05/07/25 22:44 Oil Range Organics (Over C28-C36) <498 U

Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 70 - 130 05/05/25 08:34 05/07/25 22:44 1-Chlorooctane 79 80 70 - 130 05/05/25 08:34 05/07/25 22:44 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL**MDL** Unit D Prepared Analyzed Dil Fac 9.98 05/05/25 18:46 Chloride 448 mg/Kg

Client Sample ID: HA-1 Lab Sample ID: 890-8085-2 Date Collected: 05/02/25 10:05 Matrix: Solid

Date Received: 05/02/25 14:43

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Benzene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/06/25 23:44 Toluene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/06/25 23:44 Ethylbenzene <0.00202 U 0.00202 05/05/25 10:09 05/06/25 23:44 mg/Kg 0.00404 05/06/25 23:44 m-Xylene & p-Xylene <0.00404 U mg/Kg 05/05/25 10:09 o-Xylene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/06/25 23:44 Xylenes, Total <0.00404 U 0.00404 05/05/25 10:09 05/06/25 23:44 mq/Kq Qualifier Limits Prepared Surrogate %Recovery Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 117 70 - 130 05/05/25 10:09 05/06/25 23:44

SDG: Eddy County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Lab Sample ID: 890-8085-2

Matrix: Solid

Date Collected: 05/02/25 10:05 Date Received: 05/02/25 14:43

Client Sample ID: HA-1

Sample Depth: 1

Surrogate	%Recovery Qualifier	r Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 - 130	05/05/25 10:09	05/06/25 23:44	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00404	U	0.00404	mg/Kg			05/06/25 23:44	1

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	m	g/Kg			05/07/25 23:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

			(=::=) (==)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/05/25 08:34	05/07/25 23:00	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/05/25 08:34	05/07/25 23:00	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/05/25 08:34	05/07/25 23:00	1
Surrogate	%Recovery	Qualifier	l imite				Propared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	05/05/25 08:34	05/07/25 23:00	1
o-Terphenyl	88		70 - 130	05/05/25 08:34	05/07/25 23:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4810	F1	50.0		mg/Kg			05/05/25 18:53	5

Client Sample ID: HA-1 Lab Sample ID: 890-8085-3 **Matrix: Solid**

Date Collected: 05/02/25 10:10 Date Received: 05/02/25 14:43

Sample Depth: 2

Method: SW846 8021B -	Volatile Organic	Compounds (GC)
INICITION. SYVOTO OUZ ID -	Voiatile Organic	

Method: 544040 0021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 00:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 00:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 00:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/05/25 10:09	05/07/25 00:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 00:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/05/25 10:09	05/07/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				05/05/25 10:09	05/07/25 00:05	1
1 4-Difluorobenzene (Surr)	87		70 - 130				05/05/25 10:09	05/07/25 00:05	1

l Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/07/25 00:05	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			05/07/25 23:17	1

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-1

Date Collected: 05/02/25 10:10 Date Received: 05/02/25 14:43

Sample Depth: 2

Lab Sample ID: 890-8085-3 **Matrix: Solid**

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac <50.0 U 50.0 05/05/25 08:34 05/07/25 23:17 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/05/25 08:34 05/07/25 23:17 C10-C28) 05/05/25 08:34 05/07/25 23:17 Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 1-Chlorooctane 05/05/25 08:34 05/07/25 23:17 86 o-Terphenyl 85 70 - 130 05/05/25 08:34 05/07/25 23:17

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL **MDL** Unit D Prepared Analyzed Dil Fac Chloride 2380 50.4 05/05/25 19:15 mg/Kg

Client Sample ID: HA-1

Date Collected: 05/02/25 10:15

Date Received: 05/02/25 14:43

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 00:25	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 00:25	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 00:25	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/05/25 10:09	05/07/25 00:25	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/07/25 00:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/07/25 23:32	1
Method: SW846 8015B NM - Die	esel Range	Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/07/25 23:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/07/25 23:32	1
	<49.8		49.8		mg/Kg		05/05/25 08:34	05/07/05 00 00	

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 05/05/25 08:34 05/07/25 23:32 1-Chlorooctane 87 o-Terphenyl 85 70 - 130 05/05/25 08:34 05/07/25 23:32

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Lab Sample ID: 890-8085-4

Matrix: Solid

Matrix: Solid

SDG: Eddy County, NM

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Lab Sample ID: 890-8085-4

Client Sample ID: HA-1

Date Collected: 05/02/25 10:15 Date Received: 05/02/25 14:43

Sample Depth: 3

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3290		50.2		mg/Kg			05/05/25 19:23	5

Client Sample ID: HA-1 Lab Sample ID: 890-8085-5 Matrix: Solid

Date Collected: 05/02/25 10:20 Date Received: 05/02/25 14:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 00:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 00:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 00:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/05/25 10:09	05/07/25 00:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 00:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/05/25 10:09	05/07/25 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 00:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/05/25 10:09	05/07/25 00:45	1
- Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	II	0.00396		mg/Kg			05/07/25 00:45	

_				•				
Method: SW846 8015 NM - Die:	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	MDL Un	nit D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg	g/Kg		05/08/25 00:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/08/25 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/08/25 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/08/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				05/05/25 08:34	05/08/25 00:05	1
o-Terphenyl	81		70 - 130				05/05/25 08:34	05/08/25 00:05	1

Method: EPA 300.0 - Anions, Ion	Chromat	tography - S	oluble						
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Chloride	281		10.0	n	ng/Kg			05/05/25 19:45	1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1

Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Date Collected: 05/02/25 10:25 Date Received: 05/02/25 14:43

Sample Depth: 0.5

Client Sample ID: HA-2 Lab Sample ID: 890-8085-6 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 01:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 01:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 01:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/05/25 10:09	05/07/25 01:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 01:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/05/25 10:09	05/07/25 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/05/25 10:09	05/07/25 01:06	1
1,4-Difluorobenzene (Surr)	87		70 - 130				05/05/25 10:09	05/07/25 01:06	1
	Total PTE	X Calculat	ion						
Method: TAL SOP Total BTEX	- IUlai DIE	A Guicaiui							
Method: TAL SOP Total BTEX Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed 05/07/25 01:06	Dil Fac
Analyte	<0.00399	Qualifier U	RL 0.00399	MDL		<u>D</u>	Prepared		
Analyte Total BTEX	Result <0.00399	Qualifier U	RL 0.00399	MDL MDL		<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: SW846 8015 NM - Did	Result <0.00399	Qualifier U Organics (Qualifier	RL 0.00399 DRO) (GC)		mg/Kg			05/07/25 01:06	
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte	Result <0.00399 esel Range (Result <49.7	Qualifier U Organics (Qualifier U	RL 0.00399 DRO) (GC) RL 49.7		mg/Kg Unit			05/07/25 01:06 Analyzed	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH	Result <0.00399 esel Range (Result <49.7 Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00399 DRO) (GC) RL 49.7		mg/Kg Unit mg/Kg			05/07/25 01:06 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics	Result <0.00399 esel Range (Result <49.7 Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier U	RL 0.00399 DRO) (GC) RL 49.7	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/07/25 01:06 Analyzed 05/08/25 00:22 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <0.00399 esel Range (Result <49.7 Diesel Range Result	Qualifier U Organics (Qualifier U Organics U Organics U	PRO) (GC) RL 49.7 (DRO) (GC) RL RL RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared 05/05/25 08:34	05/07/25 01:06 Analyzed 05/08/25 00:22 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10	Result <0.00399	Qualifier U Organics (Qualifier U Organics Qualifier U Organics Organics Outline U	RL 0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 05/05/25 08:34 05/05/25 08:34	05/07/25 01:06 Analyzed 05/08/25 00:22 Analyzed 05/08/25 00:22	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U Organics (Qualifier U Organics U Organics U Organics U U U	RL 0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 05/05/25 08:34 05/05/25 08:34	Analyzed 05/08/25 00:22 Analyzed 05/08/25 00:22 05/08/25 00:22 05/08/25 00:22	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U Organics (Qualifier U Organics U Organics U Organics U U U	RL 0.00399 DRO) (GC) RL 49.7 (DRO) (GC) RL 49.7	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 05/05/25 08:34 05/05/25 08:34 05/05/25 08:34 Prepared	Analyzed 05/08/25 00:22 Analyzed 05/08/25 00:22 05/08/25 00:22	Dil Fac

Chloride 2150

Result Qualifier

Client Sample ID: HA-2 Date Collected: 05/02/25 10:30

Date Received: 05/02/25 14:43

Sample Depth: 1

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/05/25 10:09	05/07/25 01:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/05/25 10:09	05/07/25 01:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/05/25 10:09	05/07/25 01:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/05/25 10:09	05/07/25 01:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/05/25 10:09	05/07/25 01:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/05/25 10:09	05/07/25 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 01:26	1

RL

49.5

MDL Unit

mg/Kg

D

Prepared

Analyzed

05/05/25 19:52

Lab Sample ID: 890-8085-7

Dil Fac

Matrix: Solid

Project/Site: RDX FEDERAL 21 #022

SDG: Eddy County, NM Lab Sample ID: 890-8085-7

Job ID: 890-8085-1

Matrix: Solid

Client Sample ID: HA-2

Date Collected: 05/02/25 10:30 Date Received: 05/02/25 14:43

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 05/05/25 10:09 70 - 130 05/07/25 01:26 1,4-Difluorobenzene (Surr) 89

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 05/07/25 01:26

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac Total TPH <49.8 U 49.8 mg/Kg 05/08/25 00:37

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier **MDL** Unit D Dil Fac Analyte Prepared Analyzed <49.8 U 49.8 05/05/25 08:34 05/08/25 00:37 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 05/05/25 08:34 05/08/25 00:37 C10-C28) Oil Range Organics (Over C28-C36) 49.8 05/05/25 08:34 05/08/25 00:37 <49.8 U mg/Kg

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1-Chlorooctane 86 70 - 130 05/05/25 08:34 05/08/25 00:37 o-Terphenyl 83 70 - 130 05/05/25 08:34 05/08/25 00:37

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Chloride 1930 49.7 05/05/25 20:00 mg/Kg

Client Sample ID: HA-2 Lab Sample ID: 890-8085-8

Date Collected: 05/02/25 10:35 Date Received: 05/02/25 14:43

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RI **MDL** Unit D Dil Fac Prepared Analyzed Benzene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/07/25 01:47 Toluene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/07/25 01:47 Ethylbenzene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/07/25 01:47 m-Xylene & p-Xylene <0.00404 U 0.00404 05/05/25 10:09 05/07/25 01:47 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 05/05/25 10:09 05/07/25 01:47 Xylenes, Total <0.00404 U 0.00404 mg/Kg 05/05/25 10:09 05/07/25 01:47

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 05/05/25 10:09 4-Bromofluorobenzene (Surr) 119 05/07/25 01:47 1,4-Difluorobenzene (Surr) 82 70 - 130 05/05/25 10:09 05/07/25 01:47

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00404 U 0.00404 05/07/25 01:47 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Total TPH <49.7 U 49.7 mg/Kg 05/08/25 00:55

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-8085-8

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-2 Date Collected: 05/02/25 10:35 Date Received: 05/02/25 14:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 00:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 00:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				05/05/25 08:34	05/08/25 00:55	1
o-Terphenyl	80		70 - 130				05/05/25 08:34	05/08/25 00:55	1

Method: EPA 300.0 - Anions, Id	Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	326		9.92		mg/Kg			05/05/25 20:07	1

Lab Sample ID: 890-8085-9 **Client Sample ID: HA-2** Date Collected: 05/02/25 10:40 **Matrix: Solid**

Date Received: 05/02/25 14:43

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 02:07	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 02:07	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 02:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 02:07	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 02:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				05/05/25 10:09	05/07/25 02:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/05/25 10:09	05/07/25 02:07	1
Total BTEX Method: SW846 8015 NM - Die	<0.00398 esel Range (0.00398 DRO) (GC)		mg/Kg			05/07/25 02:07	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	D
									Dil Fac
Total TPH -	<49.9	U	49.9		mg/Kg			05/08/25 01:10	DII Fac
Total TPH 					mg/Kg			05/08/25 01:10	
- -	iesel Range			MDL			Prepared	05/08/25 01:10 Analyzed	1
: Method: SW846 8015B NM - D	iesel Range	Organics Qualifier	(DRO) (GC)	MDL		<u>D</u>	Prepared 05/05/25 08:34		1
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result	Organics Qualifier	(DRO) (GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <49.9	Organics Qualifier U	(DRO) (GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	05/05/25 08:34 05/05/25 08:34	Analyzed 05/08/25 01:10	

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<u>05/05/25 08:34</u> <u>05/08/25 01:10</u>

05/05/25 08:34 05/08/25 01:10

70 - 130

70 - 130

82

81

1-Chlorooctane

o-Terphenyl

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-2 Lab Sample ID: 890-8085-9 **Matrix: Solid**

Date Collected: 05/02/25 10:40 Date Received: 05/02/25 14:43

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	118		10.0		mg/Kg			05/05/25 20:14	1

Client Sample ID: HA-2 Lab Sample ID: 890-8085-10

Date Collected: 05/02/25 10:45 Date Received: 05/02/25 14:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 02:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 02:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 02:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/05/25 10:09	05/07/25 02:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 02:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/05/25 10:09	05/07/25 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 02:28	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/05/25 10:09	05/07/25 02:28	1

Method: TAL SUP Total BTEX	- IOIAI DIE	X Calculat	lion					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/07/25 02:28	1
_								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.8	U	49.8	mg/Kg			05/08/25 01:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 01:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 01:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				05/05/25 08:34	05/08/25 01:27	1
o-Terphenyl	84		70 - 130				05/05/25 08:34	05/08/25 01:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	101	9.94	mg/Kg			05/05/25 20:22	1

Matrix: Solid

Lab Sample ID: 890-8085-11

05/05/25 08:34 05/08/25 01:42

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-3

Date Collected: 05/02/25 10:50 Date Received: 05/02/25 14:43

Sample Depth: 0.5

Method: SW846 8021B - Vo		Qualifier	us (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			0.00202	WIDE	mg/Kg	_ =	05/05/25 10:09	05/07/25 04:02	1
Toluene	< 0.00202	-	0.00202		mg/Kg		05/05/25 10:09	05/07/25 04:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 04:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 04:02	1
o-Xylene	< 0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 04:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/05/25 10:09	05/07/25 04:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/05/25 10:09	05/07/25 04:02	1

Method: TAL SOP Total BTEX -	- Total BTE	X Calculat						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/07/25 04:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.7	U	49.7		mg/Kg			05/08/25 01:42	1

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 01:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 01:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				05/05/25 08:34	05/08/25 01:42	1

Method: EPA 300.0 - Anions, I	hod: EPA 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102	9.96	mg/Kg			05/05/25 20:29	

70 - 130

Client Sample ID: HA-3 Lab Sample ID: 890-8085-12 **Matrix: Solid**

Date Collected: 05/02/25 10:55 Date Received: 05/02/25 14:43

Sample Depth: 2

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/05/25 10:09	05/07/25 04:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/05/25 10:09	05/07/25 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				05/05/25 10:09	05/07/25 04:22	1

SDG: Eddy County, NM

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Client Sample ID: HA-3 Lab Sample ID: 890-8085-12 **Matrix: Solid**

Date Collected: 05/02/25 10:55 Date Received: 05/02/25 14:43

Sample Depth: 2

Method: SW846 8021B -	Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	87	70 - 130	05/05/25 10:09 05/07/25 04:2	2 1

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/07/25 04:22	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	ma/Ka			05/08/25 01:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

			(- : : -) ()						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/08/25 01:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/08/25 01:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/08/25 01:59	1
Surrogate	%Recovery	Qualifier	l imits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	05/05/25 08:34	05/08/25 01:59	1
o-Terphenyl	82		70 - 130	05/05/25 08:34	05/08/25 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	[D	Prepared	Analyzed	Dil Fac
Chloride	116		10.1		mg/Kg				05/05/25 21:28	1

Client Sample ID: HA-3 Lab Sample ID: 890-8085-13 **Matrix: Solid**

Date Collected: 05/02/25 11:00 Date Received: 05/02/25 14:43

Sample Depth: 4

Method: SW846 8021B	- Volatile Organic (Compounds (GC)

Michiga. Offoro ouz 15 - vo	Jiatile Organic	Compoun	us (00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:43	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/05/25 10:09	05/07/25 04:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 04:43	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/05/25 10:09	05/07/25 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/05/25 10:09	05/07/25 04:43	1
1 4-Difluorobenzene (Surr)	87		70 130				05/05/25 10:09	05/07/25 04:43	1

l Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/07/25 04:43	1

Method: SW846 8015 NM - Diesel Ra	ange Organics	(DRO) ((GC)
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Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 L	U	49.9	mg/Kg	:		05/08/25 02:14	1

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-3 Lab Sample ID: 890-8085-13 **Matrix: Solid**

Date Collected: 05/02/25 11:00 Date Received: 05/02/25 14:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/05/25 08:34	05/08/25 02:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/25 08:34	05/08/25 02:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/25 08:34	05/08/25 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				05/05/25 08:34	05/08/25 02:14	1
o-Terphenyl	83		70 - 130				05/05/25 08:34	05/08/25 02:14	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.0		mg/Kg			05/05/25 21:50	1

Lab Sample ID: 890-8085-14 **Client Sample ID: HA-4** Date Collected: 05/02/25 11:05 **Matrix: Solid**

Date Received: 05/02/25 14:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 05:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 05:03	1
Ethylbenzene	< 0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 05:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 05:03	1
o-Xylene	< 0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 05:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				05/05/25 10:09	05/07/25 05:03	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/05/25 10:09	05/07/25 05:03	1
Total BTEX : Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)		mg/Kg			05/07/25 05:03	
Method: SW846 8015 NM - Die									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 02:30	1
Method: SW846 8015B NM - D	iesel Range	e Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 02:30	1
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 02:30	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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05/05/25 08:34 05/08/25 02:30

70 - 130

83

o-Terphenyl

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Lab Sample ID: 890-8085-14

Matrix: Solid

Matrix: Solid

Job ID: 890-8085-1

SDG: Eddy County, NM

Date Collected: 05/02/25 11:05 Date Received: 05/02/25 14:43

Client Sample ID: HA-4

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Id	on Chromat	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.5		10.1		mg/Kg			05/05/25 21:58	1

Client Sample ID: HA-4 Lab Sample ID: 890-8085-15

Date Collected: 05/02/25 11:10

Date Received: 05/02/25 14:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 05:24	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 05:24	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 05:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 05:24	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 05:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 05:24	1
1,4-Difluorobenzene (Surr)	83		70 - 130				05/05/25 10:09	05/07/25 05:24	1

Michiga. IAL GOI Total BILA	TOTAL DIE	A Gaicalat	1011						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/07/25 05:24	1

Method: SW846 8015 NM - Diese	l Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			05/07/25 20:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/05/25 08:37	05/07/25 20:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/05/25 08:37	05/07/25 20:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/05/25 08:37	05/07/25 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				05/05/25 08:37	05/07/25 20:36	1
o-Terphenyl	90		70 - 130				05/05/25 08:37	05/07/25 20:36	1

Method: EPA 300.0 - Anions, Ic	on Chromato	graphy - S	oluble						
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274		9.96		mg/Kg			05/05/25 22:05	1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-4 Lab Sample ID: 890-8085-16 **Matrix: Solid**

Date Collected: 05/02/25 11:15 Date Received: 05/02/25 14:43

Sample Depth: 4

Total TPH

. toouit	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
<0.00400	U	0.00400		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
<0.00400	U	0.00400		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
		70 - 130				05/05/25 10:09	05/07/25 05:44	1
86		70 - 130				05/05/25 10:09	05/07/25 05:44	1
EX - Total BTE	X Calculat	ion						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00400	U	0.00400		mg/Kg			05/07/25 05:44	1
	<0.00200 <0.00200 <0.00400 <0.00400 <0.00400 **Recovery** 111 86 EX - Total BTE Result	86	<0.00200 U	<pre><0.00200 U</pre>	<0.00200	<0.00200	<0.00200	<0.00200

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 21:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 21:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/05/25 08:37	05/07/25 21:25	1
o-Terphenyl	98		70 - 130				05/05/25 08:37	05/07/25 21:25	1

50.0

mg/Kg

Method: EPA 300.0 - Anions, I	on Chromat	tography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		9.94		mg/Kg			05/05/25 22:12	1

Client Sample ID: HA-5 Lab Sample ID: 890-8085-17 Date Collected: 05/02/25 11:20

<50.0 U

Date Received: 05/02/25 14:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 06:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 06:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 06:05	1
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		05/05/25 10:09	05/07/25 06:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 06:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/05/25 10:09	05/07/25 06:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 06:05	1

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05/07/25 21:25

Matrix: Solid

SDG: Eddy County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Client Sample ID: HA-5 Lab Sample ID: 890-8085-17 Date Collected: 05/02/25 11:20 **Matrix: Solid**

Date Received: 05/02/25 14:43

Sample Depth: 0.5

Method: SW846 8021B - Volatile C	Organic Compounds ((GC) (Continued)
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Surrogate	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87	70 - 130	05/05/25 10:09	05/07/25 06:05	1

Method: TAL SOP	Total BTEX - Total	BTEX Calculation
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg		_	05/07/25 06:05	1

н	Method: SW846 8015 N	M Discal Danas	Organica		\sim
н	IVIELLIOU: SYVOAD OUTS IN	w - Diesei Kande	Organics	IDROLI	

Analyte	Result C	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	J	50.0	r	mg/Kg			05/07/25 21:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

			(/						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 21:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 21:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 21:41	1
Surrogato	%Pocovory	Qualifier	l imite				Propared	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/05/25 08:37	05/07/25 21:41	1
o-Terphenyl	92		70 - 130	05/05/25 08:37	05/07/25 21:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		9.98		mg/Kg	 _		05/05/25 22:34	1

Client Sample ID: HA-5 Lab Sample ID: 890-8085-18 **Matrix: Solid**

Date Collected: 05/02/25 11:25 Date Received: 05/02/25 14:43

Sample Depth: 2

Method: SW846 8021B	- Volatile Organic (Compounds (GC)

Michiga. Offoro our ID - Vo	matthe Organic	Compoun	us (00 <i>)</i>						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 06:25	1
Toluene	< 0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 06:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 06:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 06:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 06:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 06:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/05/25 10:09	05/07/25 06:25	1
1 4-Difluorobenzene (Surr)	84		70 130				05/05/25 10:09	05/07/25 06:25	1

Method: TAL SOP Total BTFX - Total BTFX Calculati	
	n

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/07/25 06:25	1

Method: SW846 8015 NM - Diesel Rang	ge Organics (DRO) (GC
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Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 L		49.8	mg/Kg			05/07/25 21:57	1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022

SDG: Eddy County, NM

Client Sample ID: HA-5

Date Collected: 05/02/25 11:25 Date Received: 05/02/25 14:43

Sample Depth: 2

Lab Sample ID: 890-8085-18

Matrix: Solid

05/05/25 22:42

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 21:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 21:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				05/05/25 08:37	05/07/25 21:57	1
o-Terphenyl	93		70 - 130				05/05/25 08:37	05/07/25 21:57	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	- Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: HA-6 Lab Sample ID: 890-8085-19 **Matrix: Solid**

9.92

mg/Kg

163

Date Collected: 05/02/25 11:30

Date Received: 05/02/25 14:43

Sample Depth: 0.5

Chloride

Method: SW846 8021B - Volati			()						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 06:46	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 06:46	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 06:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 06:46	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:09	05/07/25 06:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/25 10:09	05/07/25 06:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				05/05/25 10:09	05/07/25 06:46	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/05/25 10:09	05/07/25 06:46	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/07/25 06:46	1
<u>.</u>									
Method: SW846 8015 NM - Die									
Analyte	Pocult								
		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7		49.7	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 05/07/25 22:12	Dil Fac
	<49.7	U	49.7	MDL		<u>D</u>	Prepared		
: Method: SW846 8015B NM - D	<49.7	U	49.7	MDL MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Method: SW846 8015B NM - D Analyte Gasoline Range Organics	<49.7	Organics Qualifier	49.7 (DRO) (GC)		mg/Kg		·	05/07/25 22:12	1
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.7 iesel Range Result	Organics Qualifier	49.7 (DRO) (GC)		mg/Kg		Prepared	05/07/25 22:12 Analyzed	1
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.7 iesel Range Result <49.7	Organics Qualifier U	49.7 (DRO) (GC) RL 49.7		mg/Kg Unit mg/Kg		Prepared 05/05/25 08:37 05/05/25 08:37	05/07/25 22:12 Analyzed 05/07/25 22:12	Dil Fac
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.7 iesel Range Result <49.7 <49.7	Organics Qualifier U	49.7 (DRO) (GC) RL 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/05/25 08:37 05/05/25 08:37	05/07/25 22:12 Analyzed 05/07/25 22:12 05/07/25 22:12	1 Dil Fac 1
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.7 iesel Range Result <49.7 <49.7 <49.7	Organics Qualifier U	49.7 (DRO) (GC) RL 49.7 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/05/25 08:37 05/05/25 08:37 05/05/25 08:37	Analyzed 05/07/25 22:12 05/07/25 22:12 05/07/25 22:12 05/07/25 22:12	1 Dil Fac 1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Client Sample ID: HA-6 Lab Sample ID: 890-8085-19 **Matrix: Solid**

Date Collected: 05/02/25 11:30 Date Received: 05/02/25 14:43

Sample Depth: 0.5

Method: EPA 300.0 - Anions, I	on Chromatogra	phy - Soluble					
Analyte	Result Qualit	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.0	10.0	mg/Kg			05/05/25 22:49	1

Client Sample ID: HA-6 Lab Sample ID: 890-8085-20 **Matrix: Solid**

Date Collected: 05/02/25 11:35 Date Received: 05/02/25 14:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 07:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 07:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 07:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/05/25 10:09	05/07/25 07:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:09	05/07/25 07:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/05/25 10:09	05/07/25 07:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/25 10:09	05/07/25 07:06	1
1,4-Difluorobenzene (Surr)	85		70 - 130				05/05/25 10:09	05/07/25 07:06	1

Method: TAL SOP Total BTEX -	· Total BTE	X Calculati	on						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 07:06	1

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/07/25 22:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 22:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 22:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				05/05/25 08:37	05/07/25 22:28	1
o-Terphenyl	92		70 - 130				05/05/25 08:37	05/07/25 22:28	1

	Method: EPA 300.0 - Anions, I	on Chromat	ography -	Soluble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	83.1		9.94		mg/Kg			05/05/25 22:56	1

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Lab Sample ID: 890-8085-21

Client Sample ID: HA-7 Date Collected: 05/02/25 11:40

Date Received: 05/02/25 14:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 16:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 16:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 16:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:07	05/08/25 16:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 16:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:07	05/08/25 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				05/05/25 10:07	05/08/25 16:49	1
1,4-Difluorobenzene (Surr)	82		70 - 130				05/05/25 10:07	05/08/25 16:49	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	П	0.00404		mg/Kg			05/08/25 16:49	1

Method: SW846 8015 NM - I	Diesel Range (Organics (D	(GC) (GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/07/25 22:44	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/05/25 08:37	05/07/25 22:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/25 08:37	05/07/25 22:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/25 08:37	05/07/25 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/05/25 08:37	05/07/25 22:44	1
o-Terphenyl	90		70 - 130				05/05/25 08:37	05/07/25 22:44	1

Method: EPA 300.0 - Anions, id	on Chromatography - s	Soluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.1	9.96	mg/Kg			05/05/25 23:04	1

Client Sample ID: HA-7 Lab Sample ID: 890-8085-22 Date Collected: 05/02/25 11:45 **Matrix: Solid**

Date Received: 05/02/25 14:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/05/25 10:07	05/08/25 17:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/05/25 10:07	05/08/25 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				05/05/25 10:07	05/08/25 17:09	1

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Lab Sample ID: 890-8085-22

Date Collected: 05/02/25 11:45 Date Received: 05/02/25 14:43

Client Sample ID: HA-7

Matrix: Solid

Job ID: 890-8085-1

SDG: Eddy County, NM

Sample Depth: 2

Method: SW846 8021B -	Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	05/05/25 10:07	05/08/25 17:09	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/08/25 17:09	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			05/07/25 23:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

			(
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 23:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/07/25 23:00	1
Surrogate	%Recovery	Qualifier	l imite				Propared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/05/25 08:37	05/07/25 23:00	1
o-Terphenyl	89		70 - 130	05/05/25 08:37	05/07/25 23:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

A	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C	Chloride	108		10.0		mg/Kg			05/05/25 23:11	1

Client Sample ID: HA-8 Lab Sample ID: 890-8085-23 **Matrix: Solid**

Date Collected: 05/02/25 11:50 Date Received: 05/02/25 14:43

Sample Depth: 0.5

Method: SW846 8021B	- Volatile Organic (Compounds (GC)

Welliou: Swo46 ouz16 - vo	Diatile Organic	Compoun	us (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/05/25 10:07	05/08/25 17:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 10:07	05/08/25 17:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/05/25 10:07	05/08/25 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				05/05/25 10:07	05/08/25 17:30	1
1,4-Difluorobenzene (Surr)	81		70 - 130				05/05/25 10:07	05/08/25 17:30	1

l Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/08/25 17:30	1

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			05/07/25 23:17	1

Matrix: Solid

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1

Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM Lab Sample ID: 890-8085-23

Date Collected: 05/02/25 11:50 Date Received: 05/02/25 14:43

Client Sample ID: HA-8

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 23:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 23:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/05/25 08:37	05/07/25 23:17	1
o-Terphenyl	87		70 - 130				05/05/25 08:37	05/07/25 23:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	92.9		10.0		mg/Kg			05/05/25 23:33	1

Client Sample ID: HA-8 Lab Sample ID: 890-8085-24 Date Collected: 05/02/25 11:55 **Matrix: Solid**

Date Received: 05/02/25 14:43

Sample Depth: 2

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 17:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 17:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 17:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:07	05/08/25 17:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:07	05/08/25 17:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:07	05/08/25 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				05/05/25 10:07	05/08/25 17:50	1
1,4-Difluorobenzene (Surr)	77		70 - 130				05/05/25 10:07	05/08/25 17:50	1
1,4-Dilluolobelizelle (Sull)	,,,								
		X Calculat							
Method: TAL SOP Total BT Analyte	EX - Total BTE	X Calculat Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BT	EX - Total BTE	Qualifier	ion	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/08/25 17:50	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX	EX - Total BTE Result <0.00404	Qualifier U	ion RL 0.00404	MDL		<u>D</u>	Prepared		Dil Fac
Method: TAL SOP Total BT Analyte	EX - Total BTE Result <0.00404 Diesel Range 0	Qualifier U	ion RL 0.00404			<u>D</u>	Prepared Prepared		1
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	EX - Total BTE Result <0.00404 Diesel Range 0	Qualifier U Organics (Qualifier	ion RL 0.00404 DRO) (GC)		mg/Kg	_ =	<u> </u>	05/08/25 17:50	Dil Fac Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	EX - Total BTE Result 0.00404 Diesel Range Result <49.8	Qualifier U Organics (Qualifier U	RL 0.00404 DRO) (GC) RL 49.8		mg/Kg Unit	_ =	<u> </u>	05/08/25 17:50 Analyzed	1
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	EX - Total BTE Result Result Round Result 49.8 - Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00404 DRO) (GC) RL 49.8	MDL	mg/Kg Unit	_ =	<u> </u>	05/08/25 17:50 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	EX - Total BTE Result Result Round Result 49.8 - Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier Qualifier	DRO) (GC) RL 49.8 (DRO) (GC)	MDL	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared	05/08/25 17:50 Analyzed 05/07/25 23:32	1

Eurofins Carlsbad

Dil Fac

05/05/25 08:37 05/07/25 23:32

05/05/25 08:37 05/07/25 23:32

05/05/25 08:37 05/07/25 23:32

Analyzed

Prepared

49.8

Limits

70 - 130

70 - 130

mg/Kg

<49.8 U

%Recovery Qualifier

98

88

Oil Range Organics (Over C28-C36)

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

SDG: Eddy County, NM **Client Sample ID: HA-8** Lab Sample ID: 890-8085-24

Date Collected: 05/02/25 11:55 Date Received: 05/02/25 14:43

Sample Depth: 2

	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	121		9.94		mg/Kg			05/05/25 23:40	1

Client Sample ID: HA-8 Lab Sample ID: 890-8085-25 **Matrix: Solid**

Date Collected: 05/02/25 12:00 Date Received: 05/02/25 14:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/05/25 10:07	05/08/25 18:11	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:07	05/08/25 18:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/05/25 10:07	05/08/25 18:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/25 10:07	05/08/25 18:11	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/05/25 10:07	05/08/25 18:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/25 10:07	05/08/25 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/05/25 10:07	05/08/25 18:11	1
1,4-Difluorobenzene (Surr)	82		70 - 130				05/05/25 10:07	05/08/25 18:11	1

Method: TAL SUP Total BTEX	- IOIAI DIE	x Calculati	On					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg	:		05/08/25 18:11	1
_								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 00:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/05/25 08:37	05/08/25 00:05	1
o-Terphenyl	92		70 - 130				05/05/25 08:37	05/08/25 00:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	146		9.98		mg/Kg			05/06/25 00:02	1

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1

SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Surrogate Recovery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-8085-1	HA-1	118	90	
90-8085-1 MS	HA-1	116	90	
0-8085-1 MSD	HA-1	111	89	
0-8085-2	HA-1	117	83	
90-8085-3	HA-1	115	87	
0-8085-4	HA-1	117	86	
0-8085-5	HA-1	118	86	
0-8085-6	HA-2	109	87	
0-8085-7	HA-2	112	89	
0-8085-8	HA-2	119	82	
0-8085-9	HA-2	117	88	
0-8085-10	HA-2	116	89	
0-8085-11	HA-3	110	88	
0-8085-12	HA-3	121	87	
0-8085-13	HA-3	108	87	
)-8085-14	HA-4	114	86	
)-8085-15	HA-4	112	83	
-8085-16	HA-4	111	86	
-8085-17	HA-5	115	87	
0-8085-18	HA-5	105	84	
0-8085-19	HA-6	117	86	
0-8085-20	HA-6	112	85	
)-8085-21	HA-7	89	82	
)-8085-22	HA-7	88	97	
0-8085-23	HA-8	92	81	
0-8085-24	HA-8	90	77	
0-8085-25	HA-8	95	82	
S 880-109408/1-A	Lab Control Sample	112	107	
S 880-109409/1-A	Lab Control Sample	118	89	
SD 880-109408/2-A	Lab Control Sample Dup	109	97	
SD 880-109409/2-A	Lab Control Sample Dup	109	87	
B 880-109408/5-A	Method Blank	91	99	
3 880-109409/5-A	Method Blank	109	86	
3 880-109448/5-A	Method Blank	109	84	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

_			Perce
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8085-1	HA-1	79	80
890-8085-2	HA-1	89	88
890-8085-3	HA-1	86	85
890-8085-4	HA-1	87	85
890-8085-5	HA-1	82	81

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Pe	ercent Sui
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8085-6	HA-2	81	77	
890-8085-7	HA-2	86	83	
890-8085-8	HA-2	83	80	
890-8085-9	HA-2	82	81	
890-8085-10	HA-2	84	84	
890-8085-11	HA-3	85	83	
890-8085-12	HA-3	84	82	
890-8085-13	HA-3	85	83	
890-8085-14	HA-4	85	83	
890-8085-15	HA-4	100	90	
890-8085-15 MS	HA-4	112	95	
890-8085-15 MSD	HA-4	94	95	
890-8085-16	HA-4	106	98	
890-8085-17	HA-5	100	92	
890-8085-18	HA-5	101	93	
890-8085-19	HA-6	100	93	
890-8085-20	HA-6	100	92	
890-8085-21	HA-7	99	90	
890-8085-22	HA-7	99	89	
890-8085-23	HA-8	95	87	
890-8085-24	HA-8	98	88	
890-8085-25	HA-8	102	92	
LCS 880-109378/2-A	Lab Control Sample	119	127	
LCS 880-109379/2-A	Lab Control Sample	145 S1+	142 S1+	
LCSD 880-109378/3-A	Lab Control Sample Dup	143 S1+	130	
LCSD 880-109379/3-A	Lab Control Sample Dup	147 S1+	144 S1+	
MB 880-109378/1-A	Method Blank	100	97	
MB 880-109379/1-A	Method Blank	152 S1+	137 S1+	
Surrogate Legend 1CO = 1-Chloroctane				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109408/5-A

Matrix: Solid

Analysis Batch: 109698

Prep Type: Total/NA

Prep Batch: 109408

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:07	05/08/25 11:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:07	05/08/25 11:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:07	05/08/25 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/25 10:07	05/08/25 11:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:07	05/08/25 11:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 10:07	05/08/25 11:22	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/05/25 10:07	05/08/25 11:22	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/05/25 10:07	05/08/25 11:22	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 109698

Lab Sample ID: LCS 880-109408/1-A

Prep Type: Total/NA

Prep Batch: 109408

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09451		mg/Kg		95	70 - 130	
Toluene	0.100	0.08904		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2140		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-109408/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 109698

Prep Type: Total/NA Prep Batch: 109408

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09204		mg/Kg		92	70 - 130	3	35
Toluene	0.100	0.08137		mg/Kg		81	70 - 130	9	35
Ethylbenzene	0.100	0.1078		mg/Kg		108	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2090		mg/Kg		104	70 - 130	2	35
o-Xylene	0.100	0.1005		mg/Kg		100	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: MB 880-109409/5-A

Matrix: Solid

Analysis Batch: 109477

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 109409

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/06/25 23:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/06/25 23:02	1

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-109409/5-A

Matrix: Solid

Analysis Batch: 109477

Client Sample ID: Method Blan

Prep Type: Total/NA

Prep Batch: 109409

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/06/25 23:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/25 10:09	05/06/25 23:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/06/25 23:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 10:09	05/06/25 23:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/05/25 10:09	05/06/25 23:02	1
1,4-Difluorobenzene (Surr)	86		70 - 130	05/05/25 10:09	05/06/25 23:02	1

Lab Sample ID: LCS 880-109409/1-A

Matrix: Solid

Analysis Batch: 109477

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 109409

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08511		mg/Kg		85	70 - 130	
0.100	0.09207		mg/Kg		92	70 - 130	
0.100	0.1002		mg/Kg		100	70 - 130	
0.200	0.1973		mg/Kg		99	70 - 130	
0.100	0.09085		mg/Kg		91	70 - 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.08511 0.100 0.09207 0.100 0.1002 0.200 0.1973	Added Result Qualifier 0.100 0.08511 0.100 0.09207 0.100 0.1002 0.200 0.1973	Added Result Qualifier Unit 0.100 0.08511 mg/Kg 0.100 0.09207 mg/Kg 0.100 0.1002 mg/Kg 0.200 0.1973 mg/Kg	Added Result Qualifier Unit D 0.100 0.08511 mg/Kg 0.100 0.09207 mg/Kg 0.100 0.1002 mg/Kg 0.200 0.1973 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08511 mg/Kg 85 0.100 0.09207 mg/Kg 92 0.100 0.1002 mg/Kg 100 0.200 0.1973 mg/Kg 99	Added Result Qualifier Unit D %Rec Limits 0.100 0.08511 mg/Kg 85 70 - 130 0.100 0.09207 mg/Kg 92 70 - 130 0.100 0.1002 mg/Kg 100 70 - 130 0.200 0.1973 mg/Kg 99 70 - 130

LCS LCS

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	89	70 - 130

Lab Sample ID: LCSD 880-109409/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 109477

Prep Type: Total/NA

Prep Batch: 109409

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08380		mg/Kg		84	70 - 130	2	35
Toluene	0.100	0.09087		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.09214		mg/Kg		92	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1913		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.09017		mg/Kg		90	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	87	70 - 130

Lab Sample ID: 890-8085-1 MS

Matrix: Solid

Analysis Batch: 109477

Client Sample ID: HA-1 Prep Type: Total/NA

Prep Batch: 109409

,	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F2 F1	0.100	0.03182	F1	mg/Kg		32	70 - 130	
Toluene	<0.00198	U F2 F1	0.100	0.02506	F1	mg/Kg		25	70 - 130	
Ethylbenzene	<0.00198	U F2 F1	0.100	0.01551	F1	mg/Kg		16	70 - 130	
m-Xylene & p-Xylene	< 0.00396	U F2 F1	0.200	0.03051	F1	mg/Kg		15	70 - 130	

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Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8085-1 MS Client Sample ID: HA-1 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 109477 Prep Batch: 109409 MS MS %Rec Sample Sample Spike

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits o-Xylene <0.00198 U F2 F1 0.100 0.01760 F1 mg/Kg 18 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 116 70 - 130 1,4-Difluorobenzene (Surr) 90 70 - 130

Lab Sample ID: 890-8085-1 MSD

Matrix: Solid

Analysis Batch: 109477

Prep Batch: 109409 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec Benzene <0.00198 U F2 F1 0.100 0.08798 F2 mg/Kg 88 70 - 130 94 35 Toluene <0.00198 U F2 F1 0.100 0.08107 F2 mg/Kg 81 70 - 130 106 35 Ethylbenzene 0.100 0.08960 F2 90 35 <0.00198 U F2 F1 mg/Kg 70 - 130 141 0.200 0.05824 F2 F1 29 35 m-Xylene & p-Xylene <0.00396 U F2 F1 mg/Kg 70 - 130 62 70 - 130 o-Xylene <0.00198 U F2 F1 0.100 0.08708 F2 mg/Kg 87 133 35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 111 70 - 130 1,4-Difluorobenzene (Surr) 89 70 - 130

Lab Sample ID: MB 880-109448/5-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 109477

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 14:44	05/06/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 14:44	05/06/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 14:44	05/06/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/25 14:44	05/06/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 14:44	05/06/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 14:44	05/06/25 11:33	1
	MB	MB							
Surrogato	%Pocovory	Qualifier	Limite				Dronarod	Analyzod	Dil Eac

Surrogate %Recovery 4-Bromofluorobenzene (Surr) 109 70 - 130 1,4-Difluorobenzene (Surr) 84 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109378/1-A Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 109644

MB MB MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Gasoline Range Organics 05/05/25 08:34 05/07/25 19:49 <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/05/25 08:34 05/07/25 19:49 Oil Range Organics (Over C28-C36) <50.0 U 50.0 05/05/25 08:34 05/07/25 19:49

mg/Kg

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Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 109448

Prep Type: Total/NA **Prep Batch: 109378**

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/05/25 08:34	05/07/25 19:49	1
o-Terphenyl	97		70 - 130	05/05/25 08:34	05/07/25 19:49	1

Lab Sample ID: LCS 880-109378/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Prep Batch: 109378 Analysis Batch: 109644 Spike LCS LCS %Rec Limits

Analyte Added Result Qualifier D %Rec Unit Gasoline Range Organics 1000 955.4 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1056 mg/Kg 106 70 - 130 C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 119 70 - 130 o-Terphenyl 127 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-109378/3-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 109644 Prep Batch: 109378

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1000 986.7 99 70 - 130 3 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1015 mg/Kg 101 70 - 130 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 143 S1+ 70 - 130 70 - 130 o-Terphenyl 130

Lab Sample ID: MB 880-109379/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 109646 Prep Batch: 109379 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/25 08:36	05/07/25 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:36	05/07/25 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:36	05/07/25 19:49	1
	MB	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	05/05/25 08:36	05/07/25 19:49	1
o-Terphenyl	137	S1+	70 - 130	05/05/25 08:36	05/07/25 19:49	1

Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1

SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109379/2-A

Matrix: Solid

Analysis Batch: 109646

Diesel Range Organics (Over

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA Prep Batch: 109379

Prep Type: Total/NA

3

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 1114 mg/Kg 111 70 - 130 (GRO)-C6-C10

1235

1270

1000

1000

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	142	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

127

124

Matrix: Solid

(GRO)-C6-C10

Analyte

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 109646

Lab Sample ID: LCSD 880-109379/3-A

						Prep Ba	itch: 10	9379	
Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1000	1125		mg/Kg		113	70 - 130	1	20	

mg/Kg

mg/Kg

C10-C28) LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 147 S1+ 70 - 130 o-Terphenyl 144 S1+ 70 - 130

Lab Sample ID: 890-8085-15 MS

Matrix: Solid

Analysis Batch: 109646

Client Sample ID: HA-4
Prep Type: Total/NA
Data Datala 400070

70 - 130

Prep Batch: 109379

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	869.7		mg/Kg		87	70 - 130
Diesel Range Organics (Over	<50.1	U	995	830.2		mg/Kg		83	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	95		70 - 130

Analysis Batch: 109646

Lab Sample ID: 890-8085-15 MSD Client Sample ID: HA-4 **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 109379 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec Gasoline Range Organics <50.1 U 995 870.6 mg/Kg 87 70 - 130 0 20 (GRO)-C6-C10 <50.1 U 995 865.6 mg/Kg 87 70 - 130 20 Diesel Range Organics (Over C10-C28)

MSD MSD

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%Recovery Qualifier Surrogate Limits 1-Chlorooctane 70 - 130 94

Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1 SDG: Eddy County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8085-15 MSD **Matrix: Solid**

Analysis Batch: 109646

MSD MSD

%Recovery Qualifier Limits Surrogate o-Terphenyl 95 70 - 130 Client Sample ID: HA-4 Prep Type: Total/NA

Prep Batch: 109379

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109429/1-A **Matrix: Solid**

Analysis Batch: 109438

MB MB

Analyte

Result Qualifier

Chloride

<10.0 U

Sample Sample

4810 F1

Sample Sample

4810 F1

Result Qualifier

Result Qualifier

10.0

Spike

Added

250

Spike

Added

Spike

Added

1250

Spike

Added

1250

250

RL

MDL Unit mg/Kg

Unit

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

LCS LCS

LCSD LCSD

MS MS

5788 F1

MSD MSD

5812 F1

Result Qualifier

Result Qualifier

Result Qualifier

233.1

230.6

Result Qualifier

D %Rec

D %Rec

Prepared

93

92

78

%Rec

80

D %Rec

Client Sample ID: Lab Control Sample Dup

Analyzed 05/05/25 16:47

Client Sample ID: Method Blank

%Rec

Limits

90 - 110

%Rec

Limits

%Rec

Limits

%Rec

Limits

90 - 110

Client Sample ID: Method Blank

90 - 110

90 - 110

Prep Type: Soluble

RPD

Client Sample ID: HA-1

Client Sample ID: HA-1

Prep Type: Soluble

RPD

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Lab Sample ID: LCS 880-109429/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 109438

Analyte

Chloride

Lab Sample ID: LCSD 880-109429/3-A **Matrix: Solid**

Analysis Batch: 109438

Analyte

Chloride

Lab Sample ID: 890-8085-2 MS

Matrix: Solid

Analysis Batch: 109438

Analyte

Lab Sample ID: 890-8085-2 MSD

Matrix: Solid

Chloride

Analyte

Analysis Batch: 109438

Chloride

Lab Sample ID: MB 880-109445/1-A

Matrix: Solid

Analysis Batch: 109446

Analyte Chloride

Result Qualifier <10.0 U

MB MB

RL 10.0 **MDL** Unit mg/Kg D

Prepared Analyzed

05/05/25 21:06

Dil Fac

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Dil Fac

RPD

Limit

RPD

Limit

20

Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1 SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-109445/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 109446

LCS LCS Spike %Rec Result Qualifier Added Limits Analyte Unit D %Rec 90 - 110 Chloride 250 231.1 mg/Kg 92

Lab Sample ID: LCSD 880-109445/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 109446

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 234.7 mg/Kg 94 2

Lab Sample ID: 890-8085-12 MS Client Sample ID: HA-3 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 109446

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec Chloride 116 252 355.2 95 90 - 110 mg/Kg

Lab Sample ID: 890-8085-12 MSD Client Sample ID: HA-3 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 109446

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 252 116 351.7 mg/Kg 90 - 110

Lab Sample ID: 890-8085-22 MS

Matrix: Solid

Analysis Batch: 109446

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 108 250 349.7 97 mg/Kg 90 - 110

Lab Sample ID: 890-8085-22 MSD

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Matrix: Solid

Analysis Batch: 109446

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit **Analyte** Unit D %Rec 108 250 Chloride 350.8 mg/Kg 97 90 - 110 20

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Client Sample ID: HA-7

Client Sample ID: HA-7

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

GC VOA

Prep Batch: 109408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-21	HA-7	Total/NA	Solid	5035	
890-8085-22	HA-7	Total/NA	Solid	5035	
890-8085-23	HA-8	Total/NA	Solid	5035	
890-8085-24	HA-8	Total/NA	Solid	5035	
890-8085-25	HA-8	Total/NA	Solid	5035	
MB 880-109408/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109408/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109408/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 109409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Total/NA	Solid	5035	
890-8085-2	HA-1	Total/NA	Solid	5035	
890-8085-3	HA-1	Total/NA	Solid	5035	
890-8085-4	HA-1	Total/NA	Solid	5035	
890-8085-5	HA-1	Total/NA	Solid	5035	
890-8085-6	HA-2	Total/NA	Solid	5035	
890-8085-7	HA-2	Total/NA	Solid	5035	
890-8085-8	HA-2	Total/NA	Solid	5035	
890-8085-9	HA-2	Total/NA	Solid	5035	
890-8085-10	HA-2	Total/NA	Solid	5035	
890-8085-11	HA-3	Total/NA	Solid	5035	
890-8085-12	HA-3	Total/NA	Solid	5035	
890-8085-13	HA-3	Total/NA	Solid	5035	
890-8085-14	HA-4	Total/NA	Solid	5035	
890-8085-15	HA-4	Total/NA	Solid	5035	
890-8085-16	HA-4	Total/NA	Solid	5035	
890-8085-17	HA-5	Total/NA	Solid	5035	
890-8085-18	HA-5	Total/NA	Solid	5035	
890-8085-19	HA-6	Total/NA	Solid	5035	
890-8085-20	HA-6	Total/NA	Solid	5035	
MB 880-109409/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109409/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109409/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8085-1 MS	HA-1	Total/NA	Solid	5035	
890-8085-1 MSD	HA-1	Total/NA	Solid	5035	

Prep Batch: 109448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-109448/5-A	Method Blank	Total/NA	Solid	5035	_

Analysis Batch: 109477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Total/NA	Solid	8021B	109409
890-8085-2	HA-1	Total/NA	Solid	8021B	109409
890-8085-3	HA-1	Total/NA	Solid	8021B	109409
890-8085-4	HA-1	Total/NA	Solid	8021B	109409
890-8085-5	HA-1	Total/NA	Solid	8021B	109409
890-8085-6	HA-2	Total/NA	Solid	8021B	109409
890-8085-7	HA-2	Total/NA	Solid	8021B	109409
890-8085-8	HA-2	Total/NA	Solid	8021B	109409

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 109477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-9	HA-2	Total/NA	Solid	8021B	109409
890-8085-10	HA-2	Total/NA	Solid	8021B	109409
890-8085-11	HA-3	Total/NA	Solid	8021B	109409
890-8085-12	HA-3	Total/NA	Solid	8021B	109409
890-8085-13	HA-3	Total/NA	Solid	8021B	109409
890-8085-14	HA-4	Total/NA	Solid	8021B	109409
890-8085-15	HA-4	Total/NA	Solid	8021B	109409
890-8085-16	HA-4	Total/NA	Solid	8021B	109409
890-8085-17	HA-5	Total/NA	Solid	8021B	109409
890-8085-18	HA-5	Total/NA	Solid	8021B	109409
890-8085-19	HA-6	Total/NA	Solid	8021B	109409
890-8085-20	HA-6	Total/NA	Solid	8021B	109409
MB 880-109409/5-A	Method Blank	Total/NA	Solid	8021B	109409
MB 880-109448/5-A	Method Blank	Total/NA	Solid	8021B	109448
LCS 880-109409/1-A	Lab Control Sample	Total/NA	Solid	8021B	109409
LCSD 880-109409/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109409
890-8085-1 MS	HA-1	Total/NA	Solid	8021B	109409
890-8085-1 MSD	HA-1	Total/NA	Solid	8021B	109409

Analysis Batch: 109630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Total/NA	Solid	Total BTEX	
890-8085-2	HA-1	Total/NA	Solid	Total BTEX	
890-8085-3	HA-1	Total/NA	Solid	Total BTEX	
890-8085-4	HA-1	Total/NA	Solid	Total BTEX	
890-8085-5	HA-1	Total/NA	Solid	Total BTEX	
890-8085-6	HA-2	Total/NA	Solid	Total BTEX	
890-8085-7	HA-2	Total/NA	Solid	Total BTEX	
890-8085-8	HA-2	Total/NA	Solid	Total BTEX	
890-8085-9	HA-2	Total/NA	Solid	Total BTEX	
890-8085-10	HA-2	Total/NA	Solid	Total BTEX	
890-8085-11	HA-3	Total/NA	Solid	Total BTEX	
890-8085-12	HA-3	Total/NA	Solid	Total BTEX	
890-8085-13	HA-3	Total/NA	Solid	Total BTEX	
890-8085-14	HA-4	Total/NA	Solid	Total BTEX	
890-8085-15	HA-4	Total/NA	Solid	Total BTEX	
890-8085-16	HA-4	Total/NA	Solid	Total BTEX	
890-8085-17	HA-5	Total/NA	Solid	Total BTEX	
890-8085-18	HA-5	Total/NA	Solid	Total BTEX	
890-8085-19	HA-6	Total/NA	Solid	Total BTEX	
890-8085-20	HA-6	Total/NA	Solid	Total BTEX	
890-8085-21	HA-7	Total/NA	Solid	Total BTEX	
890-8085-22	HA-7	Total/NA	Solid	Total BTEX	
890-8085-23	HA-8	Total/NA	Solid	Total BTEX	
890-8085-24	HA-8	Total/NA	Solid	Total BTEX	
890-8085-25	HA-8	Total/NA	Solid	Total BTEX	

Analysis Batch: 109698

Released to Imaging: 7/11/2025 2:47:42 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-21	HA-7	Total/NA	Solid	8021B	109408
890-8085-22	HA-7	Total/NA	Solid	8021B	109408

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 109698 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-23	HA-8	Total/NA	Solid	8021B	109408
890-8085-24	HA-8	Total/NA	Solid	8021B	109408
890-8085-25	HA-8	Total/NA	Solid	8021B	109408
MB 880-109408/5-A	Method Blank	Total/NA	Solid	8021B	109408
LCS 880-109408/1-A	Lab Control Sample	Total/NA	Solid	8021B	109408
LCSD 880-109408/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109408

GC Semi VOA

Prep Batch: 109378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-8085-1	HA-1	Total/NA	Solid	8015NM Prep	
890-8085-2	HA-1	Total/NA	Solid	8015NM Prep	
890-8085-3	HA-1	Total/NA	Solid	8015NM Prep	
890-8085-4	HA-1	Total/NA	Solid	8015NM Prep	
890-8085-5	HA-1	Total/NA	Solid	8015NM Prep	
890-8085-6	HA-2	Total/NA	Solid	8015NM Prep	
890-8085-7	HA-2	Total/NA	Solid	8015NM Prep	
890-8085-8	HA-2	Total/NA	Solid	8015NM Prep	
890-8085-9	HA-2	Total/NA	Solid	8015NM Prep	
890-8085-10	HA-2	Total/NA	Solid	8015NM Prep	
890-8085-11	HA-3	Total/NA	Solid	8015NM Prep	
890-8085-12	HA-3	Total/NA	Solid	8015NM Prep	
890-8085-13	HA-3	Total/NA	Solid	8015NM Prep	
890-8085-14	HA-4	Total/NA	Solid	8015NM Prep	
MB 880-109378/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109378/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109378/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 109379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-15	HA-4	Total/NA	Solid	8015NM Prep	
890-8085-16	HA-4	Total/NA	Solid	8015NM Prep	
890-8085-17	HA-5	Total/NA	Solid	8015NM Prep	
890-8085-18	HA-5	Total/NA	Solid	8015NM Prep	
890-8085-19	HA-6	Total/NA	Solid	8015NM Prep	
890-8085-20	HA-6	Total/NA	Solid	8015NM Prep	
890-8085-21	HA-7	Total/NA	Solid	8015NM Prep	
890-8085-22	HA-7	Total/NA	Solid	8015NM Prep	
890-8085-23	HA-8	Total/NA	Solid	8015NM Prep	
890-8085-24	HA-8	Total/NA	Solid	8015NM Prep	
890-8085-25	HA-8	Total/NA	Solid	8015NM Prep	
MB 880-109379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8085-15 MS	HA-4	Total/NA	Solid	8015NM Prep	
890-8085-15 MSD	HA-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Total/NA	Solid	8015B NM	109378

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QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 109644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-2	HA-1	Total/NA	Solid	8015B NM	109378
890-8085-3	HA-1	Total/NA	Solid	8015B NM	109378
890-8085-4	HA-1	Total/NA	Solid	8015B NM	109378
890-8085-5	HA-1	Total/NA	Solid	8015B NM	109378
890-8085-6	HA-2	Total/NA	Solid	8015B NM	109378
890-8085-7	HA-2	Total/NA	Solid	8015B NM	109378
890-8085-8	HA-2	Total/NA	Solid	8015B NM	109378
890-8085-9	HA-2	Total/NA	Solid	8015B NM	109378
890-8085-10	HA-2	Total/NA	Solid	8015B NM	109378
890-8085-11	HA-3	Total/NA	Solid	8015B NM	109378
890-8085-12	HA-3	Total/NA	Solid	8015B NM	109378
890-8085-13	HA-3	Total/NA	Solid	8015B NM	109378
890-8085-14	HA-4	Total/NA	Solid	8015B NM	109378
MB 880-109378/1-A	Method Blank	Total/NA	Solid	8015B NM	109378
LCS 880-109378/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109378
LCSD 880-109378/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109378

Analysis Batch: 109646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-15	HA-4	Total/NA	Solid	8015B NM	109379
890-8085-16	HA-4	Total/NA	Solid	8015B NM	109379
890-8085-17	HA-5	Total/NA	Solid	8015B NM	109379
890-8085-18	HA-5	Total/NA	Solid	8015B NM	109379
890-8085-19	HA-6	Total/NA	Solid	8015B NM	109379
890-8085-20	HA-6	Total/NA	Solid	8015B NM	109379
890-8085-21	HA-7	Total/NA	Solid	8015B NM	109379
890-8085-22	HA-7	Total/NA	Solid	8015B NM	109379
890-8085-23	HA-8	Total/NA	Solid	8015B NM	109379
890-8085-24	HA-8	Total/NA	Solid	8015B NM	109379
890-8085-25	HA-8	Total/NA	Solid	8015B NM	109379
MB 880-109379/1-A	Method Blank	Total/NA	Solid	8015B NM	109379
LCS 880-109379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109379
LCSD 880-109379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109379
890-8085-15 MS	HA-4	Total/NA	Solid	8015B NM	109379
890-8085-15 MSD	HA-4	Total/NA	Solid	8015B NM	109379

Analysis Batch: 109724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Total/NA	Solid	8015 NM	
890-8085-2	HA-1	Total/NA	Solid	8015 NM	
890-8085-3	HA-1	Total/NA	Solid	8015 NM	
890-8085-4	HA-1	Total/NA	Solid	8015 NM	
890-8085-5	HA-1	Total/NA	Solid	8015 NM	
890-8085-6	HA-2	Total/NA	Solid	8015 NM	
890-8085-7	HA-2	Total/NA	Solid	8015 NM	
890-8085-8	HA-2	Total/NA	Solid	8015 NM	
890-8085-9	HA-2	Total/NA	Solid	8015 NM	
890-8085-10	HA-2	Total/NA	Solid	8015 NM	
890-8085-11	HA-3	Total/NA	Solid	8015 NM	
890-8085-12	HA-3	Total/NA	Solid	8015 NM	
890-8085-13	HA-3	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 109724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-14	HA-4	Total/NA	Solid	8015 NM	
890-8085-15	HA-4	Total/NA	Solid	8015 NM	
890-8085-16	HA-4	Total/NA	Solid	8015 NM	
890-8085-17	HA-5	Total/NA	Solid	8015 NM	
890-8085-18	HA-5	Total/NA	Solid	8015 NM	
890-8085-19	HA-6	Total/NA	Solid	8015 NM	
890-8085-20	HA-6	Total/NA	Solid	8015 NM	
890-8085-21	HA-7	Total/NA	Solid	8015 NM	
890-8085-22	HA-7	Total/NA	Solid	8015 NM	
890-8085-23	HA-8	Total/NA	Solid	8015 NM	
890-8085-24	HA-8	Total/NA	Solid	8015 NM	
890-8085-25	HA-8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Soluble	Solid	DI Leach	
890-8085-2	HA-1	Soluble	Solid	DI Leach	
890-8085-3	HA-1	Soluble	Solid	DI Leach	
890-8085-4	HA-1	Soluble	Solid	DI Leach	
890-8085-5	HA-1	Soluble	Solid	DI Leach	
890-8085-6	HA-2	Soluble	Solid	DI Leach	
890-8085-7	HA-2	Soluble	Solid	DI Leach	
890-8085-8	HA-2	Soluble	Solid	DI Leach	
890-8085-9	HA-2	Soluble	Solid	DI Leach	
890-8085-10	HA-2	Soluble	Solid	DI Leach	
890-8085-11	HA-3	Soluble	Solid	DI Leach	
MB 880-109429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8085-2 MS	HA-1	Soluble	Solid	DI Leach	
890-8085-2 MSD	HA-1	Soluble	Solid	DI Leach	

Analysis Batch: 109438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-1	HA-1	Soluble	Solid	300.0	109429
890-8085-2	HA-1	Soluble	Solid	300.0	109429
890-8085-3	HA-1	Soluble	Solid	300.0	109429
890-8085-4	HA-1	Soluble	Solid	300.0	109429
890-8085-5	HA-1	Soluble	Solid	300.0	109429
890-8085-6	HA-2	Soluble	Solid	300.0	109429
890-8085-7	HA-2	Soluble	Solid	300.0	109429
890-8085-8	HA-2	Soluble	Solid	300.0	109429
890-8085-9	HA-2	Soluble	Solid	300.0	109429
890-8085-10	HA-2	Soluble	Solid	300.0	109429
890-8085-11	HA-3	Soluble	Solid	300.0	109429
MB 880-109429/1-A	Method Blank	Soluble	Solid	300.0	109429
LCS 880-109429/2-A	Lab Control Sample	Soluble	Solid	300.0	109429
LCSD 880-109429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109429
890-8085-2 MS	HA-1	Soluble	Solid	300.0	109429

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QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1 SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 109438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-2 MSD	HA-1	Soluble	Solid	300.0	109429

Leach Batch: 109445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-12	HA-3	Soluble	Solid	DI Leach	
890-8085-13	HA-3	Soluble	Solid	DI Leach	
890-8085-14	HA-4	Soluble	Solid	DI Leach	
890-8085-15	HA-4	Soluble	Solid	DI Leach	
890-8085-16	HA-4	Soluble	Solid	DI Leach	
890-8085-17	HA-5	Soluble	Solid	DI Leach	
890-8085-18	HA-5	Soluble	Solid	DI Leach	
890-8085-19	HA-6	Soluble	Solid	DI Leach	
890-8085-20	HA-6	Soluble	Solid	DI Leach	
890-8085-21	HA-7	Soluble	Solid	DI Leach	
890-8085-22	HA-7	Soluble	Solid	DI Leach	
890-8085-23	HA-8	Soluble	Solid	DI Leach	
890-8085-24	HA-8	Soluble	Solid	DI Leach	
890-8085-25	HA-8	Soluble	Solid	DI Leach	
MB 880-109445/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109445/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109445/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8085-12 MS	HA-3	Soluble	Solid	DI Leach	
890-8085-12 MSD	HA-3	Soluble	Solid	DI Leach	
890-8085-22 MS	HA-7	Soluble	Solid	DI Leach	
890-8085-22 MSD	HA-7	Soluble	Solid	DI Leach	

Analysis Batch: 109446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8085-12	HA-3	Soluble	Solid	300.0	109445
890-8085-13	HA-3	Soluble	Solid	300.0	109445
890-8085-14	HA-4	Soluble	Solid	300.0	109445
890-8085-15	HA-4	Soluble	Solid	300.0	109445
890-8085-16	HA-4	Soluble	Solid	300.0	109445
890-8085-17	HA-5	Soluble	Solid	300.0	109445
890-8085-18	HA-5	Soluble	Solid	300.0	109445
890-8085-19	HA-6	Soluble	Solid	300.0	109445
890-8085-20	HA-6	Soluble	Solid	300.0	109445
890-8085-21	HA-7	Soluble	Solid	300.0	109445
890-8085-22	HA-7	Soluble	Solid	300.0	109445
890-8085-23	HA-8	Soluble	Solid	300.0	109445
890-8085-24	HA-8	Soluble	Solid	300.0	109445
890-8085-25	HA-8	Soluble	Solid	300.0	109445
MB 880-109445/1-A	Method Blank	Soluble	Solid	300.0	109445
LCS 880-109445/2-A	Lab Control Sample	Soluble	Solid	300.0	109445
LCSD 880-109445/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109445
890-8085-12 MS	HA-3	Soluble	Solid	300.0	109445
890-8085-12 MSD	HA-3	Soluble	Solid	300.0	109445
890-8085-22 MS	HA-7	Soluble	Solid	300.0	109445
890-8085-22 MSD	HA-7	Soluble	Solid	300.0	109445

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Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Lab Sample ID: 890-8085-1 Client Sample ID: HA-1

Date Collected: 05/02/25 10:00 Matrix: Solid Date Received: 05/02/25 14:43

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/06/25 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/06/25 23:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 22:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/07/25 22:44	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		1			109438	05/05/25 18:46	CH	EET MID

Client Sample ID: HA-1 Lab Sample ID: 890-8085-2 Date Collected: 05/02/25 10:05 **Matrix: Solid**

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/06/25 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/06/25 23:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/07/25 23:00	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		5			109438	05/05/25 18:53	CH	EET MID

Client Sample ID: HA-1 Lab Sample ID: 890-8085-3 Date Collected: 05/02/25 10:10

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 00:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/07/25 23:17	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109429	05/05/25 11:20	SA	EET MI
Soluble	Analysis	300.0		5			109438	05/05/25 19:15	CH	EET MII

Client Sample ID: HA-1 Lab Sample ID: 890-8085-4 Date Collected: 05/02/25 10:15

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 00:25	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-8085-4

Matrix: Solid

Job ID: 890-8085-1

Date Collected: 05/02/25 10:15 Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/07/25 23:32	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		5			109438	05/05/25 19:23	CH	EET MID

Client Sample ID: HA-1 Lab Sample ID: 890-8085-5 Date Collected: 05/02/25 10:20

Date Received: 05/02/25 14:43

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 00:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 00:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 00:05	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		1			109438	05/05/25 19:45	CH	EET MID

Client Sample ID: HA-2 Lab Sample ID: 890-8085-6

Date Collected: 05/02/25 10:25 Date Received: 05/02/25 14:43

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 01:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 00:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 00:22	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		5			109438	05/05/25 19:52	CH	EET MID

Client Sample ID: HA-2 Lab Sample ID: 890-8085-7 Date Collected: 05/02/25 10:30 **Matrix: Solid**

Date Received: 05/02/25 14:43

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 01:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 00:37	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	109378 109644	05/05/25 08:34 05/08/25 00:37	EL TKC	EET MID EET MID

Project/Site: RDX FEDERAL 21 #022

SDG: Eddy County, NM

Client Sample ID: HA-2

Date Collected: 05/02/25 10:30 Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-7

Matrix: Solid

Job ID: 890-8085-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		5			109438	05/05/25 20:00	CH	EET MID

Lab Sample ID: 890-8085-8 **Client Sample ID: HA-2** Date Collected: 05/02/25 10:35 Matrix: Solid

Date Received: 05/02/25 14:43

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 01:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 00:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 00:55	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		1			109438	05/05/25 20:07	CH	EET MID

Lab Sample ID: 890-8085-9 **Client Sample ID: HA-2 Matrix: Solid**

Date Collected: 05/02/25 10:40 Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 02:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 01:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 01:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		1			109438	05/05/25 20:14	CH	EET MID

Client Sample ID: HA-2 Lab Sample ID: 890-8085-10 Date Collected: 05/02/25 10:45 Matrix: Solid

Date Received: 05/02/25 14:43

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 02:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 02:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 01:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 01:27	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		1			109438	05/05/25 20:22	CH	EET MID

Job ID: 890-8085-1 SDG: Eddy County, NM

Lab Sample ID: 890-8085-11 Client Sample ID: HA-3 Date Collected: 05/02/25 10:50

Matrix: Solid

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 04:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 01:42	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109429	05/05/25 11:20	SA	EET MID
Soluble	Analysis	300.0		1			109438	05/05/25 20:29	CH	EET MID

Client Sample ID: HA-3 Lab Sample ID: 890-8085-12 Date Collected: 05/02/25 10:55 **Matrix: Solid**

Date Received: 05/02/25 14:43

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 109409 05/05/25 10:09 MNR EET MID Prep 5.05 g 5 mL Total/NA Analysis 8021B 05/07/25 04:22 MNR **EET MID** 5 mL 5 mL 109477 1 Total/NA Analysis Total BTEX 109630 05/07/25 04:22 SM **EET MID** 1 Total/NA 8015 NM 05/08/25 01:59 SM **EET MID** Analysis 1 109724 Total/NA Prep 8015NM Prep 10.01 g 10 mL 109378 05/05/25 08:34 EL **EET MID** Total/NA 8015B NM 109644 05/08/25 01:59 TKC Analysis 1 uL 1 uL **EET MID** Soluble 50 mL DI Leach 4.96 g 109445 05/05/25 14:06 SA **EET MID** Leach 300.0 05/05/25 21:28 CH Soluble Analysis 1 109446 **EET MID**

Client Sample ID: HA-3 Lab Sample ID: 890-8085-13 Date Collected: 05/02/25 11:00 Matrix: Solid

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 04:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 04:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 02:14	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 21:50	CH	EET MID

Client Sample ID: HA-4 Lab Sample ID: 890-8085-14 Date Collected: 05/02/25 11:05 **Matrix: Solid**

Date Received: 05/02/25 14:43

D T	Batch	Batch	D	Dil	Initial	Final	Batch	Prepared	Amalmat	11.
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 05:03	SM	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Lab Sample ID: 890-8085-14

Matrix: Solid

Job ID: 890-8085-1

SDG: Eddy County, NM

Date Collected: 05/02/25 11:05 Date Received: 05/02/25 14:43

Client Sample ID: HA-4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109724	05/08/25 02:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109378	05/05/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109644	05/08/25 02:30	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 21:58	CH	EET MID

Client Sample ID: HA-4 Lab Sample ID: 890-8085-15

Date Collected: 05/02/25 11:10 **Matrix: Solid**

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 05:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 20:36	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 22:05	CH	EET MID

Client Sample ID: HA-4 Lab Sample ID: 890-8085-16

Date Collected: 05/02/25 11:15 Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 05:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 05:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 21:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 21:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 22:12	CH	EET MID

Client Sample ID: HA-5 Lab Sample ID: 890-8085-17 Date Collected: 05/02/25 11:20 **Matrix: Solid**

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 06:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 21:41	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	109379 109646	05/05/25 08:37 05/07/25 21:41	EL TKC	EET MID EET MID

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Matrix: Solid

Released to Imaging: 7/11/2025 2:47:42 PM

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Lab Sample ID: 890-8085-17

Matrix: Solid

Job ID: 890-8085-1

SDG: Eddy County, NM

Client Sample ID: HA-5 Date Collected: 05/02/25 11:20

Date Received: 05/02/25 14:43

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
3	Soluble	Leach	DI Leach			5.01 g	50 mL	109445	05/05/25 14:06	SA	EET MID
!	Soluble	Analysis	300.0		1			109446	05/05/25 22:34	CH	EET MID

Lab Sample ID: 890-8085-18

Matrix: Solid

Date Collected: 05/02/25 11:25 Date Received: 05/02/25 14:43

Client Sample ID: HA-5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 06:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 06:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 21:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 21:57	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 22:42	CH	EET MID

Lab Sample ID: 890-8085-19 **Client Sample ID: HA-6 Matrix: Solid**

Date Collected: 05/02/25 11:30

Date Received: 05/02/25 14:43

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 06:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 06:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 22:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 22:49	CH	EET MID

Client Sample ID: HA-6 Lab Sample ID: 890-8085-20 Date Collected: 05/02/25 11:35 **Matrix: Solid**

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109409	05/05/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109477	05/07/25 07:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 07:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 22:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 22:28	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 22:56	CH	EET MID

Client Sample ID: HA-7

Date Collected: 05/02/25 11:40 Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-21 **Matrix: Solid**

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab 5035 109408 05/05/25 10:07 EET MID Total/NA Prep 4.95 g 5 mL MNR Total/NA 8021B 109698 05/08/25 16:49 MNR Analysis 1 5 mL 5 mL **EET MID** Total/NA Analysis **Total BTEX** 109630 05/08/25 16:49 SM **EET MID** Total/NA Analysis 8015 NM 1 109724 05/07/25 22:44 SM **EET MID** Prep Total/NA 8015NM Prep 10.03 g 10 mL 109379 05/05/25 08:37 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 109646 05/07/25 22:44 TKC **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 109445 05/05/25 14:06 SA **EET MID** Soluble 300.0 109446 05/05/25 23:04 CH **EET MID** Analysis 1

Client Sample ID: HA-7 Lab Sample ID: 890-8085-22 Date Collected: 05/02/25 11:45 Matrix: Solid

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109408	05/05/25 10:07	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	109698	05/08/25 17:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/08/25 17:09	SM	EET MI
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:00	SM	EET MI
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109379	05/05/25 08:37	EL	EET MI
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 23:00	TKC	EET MI
Soluble	Leach	DI Leach			5.00 g	50 mL	109445	05/05/25 14:06	SA	EET MII
Soluble	Analysis	300.0		1			109446	05/05/25 23:11	CH	EET MII

Client Sample ID: HA-8 Lab Sample ID: 890-8085-23 Date Collected: 05/02/25 11:50 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109408	05/05/25 10:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109698	05/08/25 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/08/25 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 23:17	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 23:33	CH	EET MID

Client Sample ID: HA-8 Lab Sample ID: 890-8085-24

Date Collected: 05/02/25 11:55 Date Received: 05/02/25 14:43

Date Received: 05/02/25 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109408	05/05/25 10:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109698	05/08/25 17:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/08/25 17:50	SM	EET MID

Eurofins Carlsbad

Page 48 of 60

EET MID Matrix: Solid

Job ID: 890-8085-1

Matrix: Solid

SDG: Eddy County, NM

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Client Sample ID: HA-8 Lab Sample ID: 890-8085-24

Date Collected: 05/02/25 11:55
Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/07/25 23:32	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 23:40	CH	EET MID

Client Sample ID: HA-8

Date Collected: 05/02/25 12:00

Lab Sample ID: 890-8085-25

Matrix: Solid

Date Received: 05/02/25 14:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109408	05/05/25 10:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109698	05/08/25 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/08/25 18:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 00:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 00:05	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/06/25 00:02	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8085-1 Project/Site: RDX FEDERAL 21 #022 SDG: Eddy County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Progra	am	Identification Number	Expiration Date
exas	NELAI	ס	T104704400	06-30-25
I ha tallawing analyta	e are included in this rene	rt but the laboratory is i	not cortified by the governing outbori	ity. This list may includ
,	•	•	not certified by the governing authori	ty. This list may includ
,	s are included in this repo does not offer certification	•	not certified by the governing authori	ity. This list may includ
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for which the agency	does not offer certification		, , ,	ty. This list may inclu

Method Summary

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1

SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: RDX FEDERAL 21 #022

890-8085-25

HA-8

Job ID: 890-8085-1 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8085-1	HA-1	Solid	05/02/25 10:00	05/02/25 14:43	0.5
890-8085-2	HA-1	Solid	05/02/25 10:05	05/02/25 14:43	1
890-8085-3	HA-1	Solid	05/02/25 10:10	05/02/25 14:43	2
890-8085-4	HA-1	Solid	05/02/25 10:15	05/02/25 14:43	3
890-8085-5	HA-1	Solid	05/02/25 10:20	05/02/25 14:43	4
890-8085-6	HA-2	Solid	05/02/25 10:25	05/02/25 14:43	0.5
890-8085-7	HA-2	Solid	05/02/25 10:30	05/02/25 14:43	1
890-8085-8	HA-2	Solid	05/02/25 10:35	05/02/25 14:43	2
890-8085-9	HA-2	Solid	05/02/25 10:40	05/02/25 14:43	3
890-8085-10	HA-2	Solid	05/02/25 10:45	05/02/25 14:43	4
890-8085-11	HA-3	Solid	05/02/25 10:50	05/02/25 14:43	0.5
890-8085-12	HA-3	Solid	05/02/25 10:55	05/02/25 14:43	2
890-8085-13	HA-3	Solid	05/02/25 11:00	05/02/25 14:43	4
890-8085-14	HA-4	Solid	05/02/25 11:05	05/02/25 14:43	0.5
890-8085-15	HA-4	Solid	05/02/25 11:10	05/02/25 14:43	2
890-8085-16	HA-4	Solid	05/02/25 11:15	05/02/25 14:43	4
890-8085-17	HA-5	Solid	05/02/25 11:20	05/02/25 14:43	0.5
890-8085-18	HA-5	Solid	05/02/25 11:25	05/02/25 14:43	2
890-8085-19	HA-6	Solid	05/02/25 11:30	05/02/25 14:43	0.5
890-8085-20	HA-6	Solid	05/02/25 11:35	05/02/25 14:43	2
890-8085-21	HA-7	Solid	05/02/25 11:40	05/02/25 14:43	0.5
890-8085-22	HA-7	Solid	05/02/25 11:45	05/02/25 14:43	2
890-8085-23	HA-8	Solid	05/02/25 11:50	05/02/25 14:43	0.5
890-8085-24	HA-8	Solid	05/02/25 11:55	05/02/25 14:43	2

Solid

05/02/25 12:00 05/02/25 14:43 4

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Relinquished by: (Signature)

Circle Method(s) and Metal(s) to be analyzed

Total

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200.8 / 6020:

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Xenco

Phone:

832-541-7719 Carlsbad, NM, 88220

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City, State ZIP.

Project Manager:

Company Name:

Earth Systems R&R Gilbert Moreno

1910 Resource Ct

Project Name:

RDX FEDERAL 21 #022

Project Number:

SAMPLE RECEIPT

Samples Received Intact:

Cooler Custody Seals:

Yes

N_O No.

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S O

Thermometer ID:

+ N 2 007 -0.2

Correction Factor:

Temp Blank:

No Set

Wet Ice:

(Yes)

N_o

Parameters

Yes

Temperature Reading:

9 U.L

Corrected Temperature:

ample Custody Seals:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth (feet)

Comp

of

Cont

TPH -NM

Chloride-NM

BTEX-NM

Hold

Grab/

POWO #

Project Location:

Sampler's Name:

Gilbert Moreno, Santiago Giron

TAT starts the day received by the lab,

received by 4:30pm

Eddy County, NM

Due Date:

Routine TAT

☑ Routine

☐ Rush

Pres. Code

Turn Around

Chain of Custody

13 14

Houston TX (281) 240-4200, Dallas, TX (214) 902-0300

Middle, IA (#32	Middle, 12 (432) 104-3440, Sail Alicollo, 12 (210) 309-3334	
Et Paso, TX (9 Hobbs, NM (57	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	890-8085 Chain of Custody
Bill to: (if different)	Jim Raley	WORK Order Commence
Company Name:	Devon Energy	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
Address:		State of Project:
City, State ZIP:		Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
ail: gmoreno@earthsys.net		Deliverables: EDD ☐ ADaPT ☐ Other:

Ca δ 24 Hr Rush င္ပ ဥ **ANALYSIS REQUEST** Fe В Μg **⊼** Mo <u>Z</u> ス Se ð SiO₂ 1631 / 245.1 / 7470 Na a Sr TI Sn U V HCL: HC H₂S0₄: H₂ NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS None: NO H3PO4: HP Cool: Cool Preservative Codes Sample Comments nAPP2506224384 Incident Number 1747 Zn HNO3: HN DI Water: H₂O MeOH: Me NaOH: Na Page 53 of 60

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Received by: (Signature) Date/Time Relinquished by: (Signature) Received by. (Signature)

Released to Imaging: 7/11/2025 2:47:42 PM

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

2/2025 (Rev. 1)

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC	Devon Energy	Company Name:	Earth Systems R&R	Eart
Work Order Comments	Jim Raley	Bill to: (if different)	Gilbert Moreno	Gilbe
www.xenco.com Page				
	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM		
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, T	Xenco	
Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX		
	Houston, TX (281) 240-4200, Dallas, TX (214) 902 0300	Houston,		

Silbert Moreno Bill to: (if different) Jim Raley	Dozence Ct. Address: City, State ZIP: Company Name: Devon Energy	Bill to: (if different)	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	HA-5	HA-5	HA-4	HA-4	HA-4	HA-3	HA-3	HA-3	HA-2	Sample Identification	Total Containers:	Sample Custody Seals: Yes	Cooler Custody Seals: Yes	Samples Received Intact:	SAMPLE RECEIPT 1		1	Project Location: E	Project Number:	Project Name: RDX	Phone: 832-541-7719	City, State ZIP: Carlsbad	Address: 1910 Rev	Company Name: Earth Sy	Project Manager: Gilbert Moreno	
Bill to: (if different) Jim Raley	Bill to: (f different) Jim Raley		200.8 / 6020: al(s) to be anal	s	s	S	S	S	S	S	S	S	Matri	(No	No		Temp Blank:		Moreno, San	Eddy County	63	(FEDERAL	-7719	Carlsbad, NM, 88220	1910 Resource Ct.	Earth Systems R&R	foreno	
Bill to: (if different) Jim Raley	Bill to: (if different) Jim Raley		yzed	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25		Corrected T	_	_	Thermomet			tiago Giron	NM		21 #022						
A S S S S S S S S S	A Sb	Jim Raley Work Q Work Q	8RCRA	11:25	11:20	11:15	11:10	11:05	11:00	10:55	10:50	10:45	Time Sampled	emperature:	e Reading:	Factor:	er ID:	Wet Ice:	rec	TAT starts the	Due Date:	☑ Routine		Email:					
A B B B B B B B B B	Devon Energy Devo	Jim Raley Work Q Work Q Work Q	111 1	2	0.5	4	2	0.5	4	2	0.5	4	Depth (feet)	1 -	0.2	1.0-	Lanne		eived by 4:30pm	day received by th	Routine T/	Rush	urn Around	gmoreno@ear	City, State ZIP:	Address:	Company Name	Bill to: (if different	
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Received by: (Signature)

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Date/Time

Relinquished by: (Signature)

Received by. (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

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Xenco

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Chain of Custody

Work Order C	Rill to: (if different) lim Ruley	Bill to:
www.xenco.com		
	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	enco
Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	invironment lesting

G G G G G G G G G G G G G G G G G G G	Grab/ A A A A A Chloride-NM A A A A BTEX-NM Hold	Depth (feet) O.5 Grab/ O.5 Grab/ 1 1 1 1 Parameters X X X X TPH -NM X X X X BTEX-NM Hold	2 Grab/ 1 1 1 Grab/ Parameters 2 Grab/ 1 1 1 Parameters 2 Chloride-NM 2 X X X X X BTEX-NM Hold	Depth (feet) Comp Parameters	Depth (feet) Comp Parameters
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	××	× × >	× × × >	× × × × ×	× × × × ×
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Phone:

832-541-7719 Carlsbad, NM, 88220

Email: gmoreno@earthsys.net

Deliverables: EDD

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐

Level IV

ADaPT 🗆

State of Project:

City, State ZIP:

City, State ZIP: Address: Company Name: Project Manager:

Earth Systems R&R Gilbert Moreno

Company Name:

Devon Energy

1910 Resource Ct.

w.xenco.com Page W 앜

Work Order Comments

5/12/2025 (Rev. 1)

Relinquished by: (Signature)

Received by: (Signature)

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Date/Time

Relinquished by: (Signature)

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Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Et Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston TX (281) 240-4200, Dallae, TX (214) 902-0300
296	3334	8

10tal 200.7 / 6010 200.6	200 7 / 6010	HA-2	HA-2	HA-2	HA-2	HA-1	HA-1	HA-1	HA-1	HA-1	Sample Identification	Total Containers:	Sample Custody Seals: Yes	Cooler Custody Seals: Yes	Samples Received Intact: Yes	SAMPLE RECEIPT Tem	POWO #:	Sampler's Name: Gilbert Moreno, Santiago Giron	Project Location: Edd	Project Number:	Project Name: RDX FI	Phone: 832-541-7719	City, State ZIP: Carlsbad, NM, 88220	Address: 1910 Resource Ct.	Company Name: Earth Systems R&R	Project Manager: Gilbert Moreno	
Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020:	s	S	S	S	S	S	S	S	S	Matrix		No (N/A	No NA	s No	Temp Blank:		reno, San	Eddy County, NM	63	RDX FEDERAL 21 #022	19	M, 88220	irce Ct.	ms R&R	eno	
/zed		5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	5.2.25	Date Sampled	Corrected	_	Correction Factor:	Thermometer ID:	ON Set)		tiago Giron	MN		21 #022						
	8RCRA	10:40	10:35	10:30	10:25	10:20	10:15	10:10	10:05	10:00	Time Sampled	Corrected Temperature:	Temperature Reading:	Factor:	eter ID:	Wet Ice:	7	_	Due Date:	☑ Routine		Ema					
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	≥	Grab/	Grab/	Grab/ Comp # 6				7			he lab, if	TAT	0.3		rthsys.net			ė.	i)	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199							
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	Ca										Hold																NM (575
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	Cu Fe						_					+							+		ANALY						3199
Circle Method(s) and Metal(s) to be analyzed	P _b ≤	-					-					H							+	_	SIS RE						
	g Mn Mo I																				ALYSIS REQUEST	Deliverables: EDD	Reporting:	State of Project:	Program:		
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ᅜ	Ag SiC	_	-		-	_				_					H				+	-]Level I		PRP	WORK	-8085 C
j: 1631) ₂ Na	_						-		H		+		-	H				+			ADal	= □ P		☐ Bro\	Orger	hain of
Hg: 1631 / 245.1 / 7470 / 7471	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn								nAPP2506224384	Incident Number	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ SO ₄ : H ₂ NaOH: Na	HCL: HC HNO ₃ : HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT Other:	Reporting: Level II Level III PST/UST TRRP L Level IV		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	WORK Order Commence	890-8085 Chain of Custody
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Date/Time

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Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Reporting: Level II		City, State ZIP:	Carlsbad, NM, 88220	ZIP: Carlsb
State of Project:		Address:	1910 Resource Ct.	1910 F
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superful	Devon Energy	Company Name:	Earth Systems R&R	Vame: Earth
Work Order Comments	Jim Raley	Bill to: (if different)	Gilbert Moreno	nager: Gilbert
www.xenco.com Page 2 of 3	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM		
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, T)	Xenco	
Work Order No:	Houston, TX (281) 240-4200, Dallas, TX (214) 882 8880 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, T Midland, TX (5 Environment resime	curonns
				The state of the s

Project Manager: G Company Name: Es Address: 19 City, State ZIP: C:	Gilbert Moreno Earth Systems R&R 1910 Resource Ct. Carlsbad, NM, 88220	R&R Ct. 88220			Bill to: (if different) Company Name: Address: City, State ZIP:	nt) Jim Raley e: Devon Energy	Jim	Jim Raley Devon Energy	ergy					Program: UST/P State of Project: Reporting: Level	www.xenco.com Page \(\) Work Order Comments Program: UST/PST \(\) PRP \(\) Brownfields \(\) RRC \(\) State of Project: Reporting: Level \(\) Level \(\) PST/UST \(\) TRRP \(\)	Work Order Comments T PRP Brownfields R Level III PST/UST T		Drde Bra
	832-541-7719			Email:		sys.net									Deliveral	Deliverables: EDD	Deliverables: EDD	Deliverables: EDD
Project Name:	RDX FEDERAL 21 #022	RAL 21	#022		Turn Around							ANALYS	YSIS R	EQ	REQUEST	EQUEST	EQUEST	EQUEST
Project Number:		63		☑ Routine	Rush	Pres. Code	de s	Н										
Project Location:	Eddy C	Eddy County, NM	M	Due Date:	Routine TAT			\vdash		T		-	- 1					
	Gilbert Moreno, Santiago Giron), Santia	go Giron	TAT starts the	TAT starts the day received by the lab,	lab, if												
4				гес	received by 4:30pm	-												
SAMPLE RECEIPT	Temp Blank:	lank:	Yes No	Wet Ice:	ON SOT)	nete												
Samples Received Intact:	act: Rey	No -	Thermometer ID:	er ID:	Muces	ran												
Cooler Custody Seals:	Ύe	NIA	Correction Factor:	-actor:	1.0-	Pa		t	T	T								
Sample Custody Seals:	s: Yes No	NIA -	Temperature Reading:	e Reading:	0.2				_									
Total Containers:		9	Corrected T	Corrected Temperature:	0.0			NM	1		sh							
Sample Identification	ification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp # of	Cont TPH -NM	Chloride	BTEX-NN	Hold	24 Hr Ru							
HA-2		S	5.2.25	10:45	4 0	Grab/ 1	×	×	×				1					
HA-3		S	5.2.25	10:50	0.5	Grab/ 1	×	×	×				1					
HA-3		S	5.2.25	10:55	2 0	Grab/ 1	×	×	×				1					
HA-3		S	5.2.25	11:00	4 0	Grab/ 1	×	×	×				1					
HA-4		S	5.2.25	11:05	0.5	Grab/ 1	×	×	×				1					
HA-4		S	5.2.25	11:10	2 0	Grab/ 1	×	×	×				I					
HA-4		S	5.2.25	11:15	4 0	Grab/ 1	×	×	×									
HA-5		S	5.2.25	11:20	0.5	Grab/ 1	×	×	×				i					
HA-5		S	5.2.25	11:25	2 0	Grab/ 1	×	×	×									
Total 200.7 / 6010	200.8	6020:		8RCRA	13PPM Texas 11	1 Al Sb	В	Ba Be	B Cd	d Ca	Cr Cc		Cu Fe	ou Fe Ph Mg	Fe Pb Mg	Fe Pb Mg Mn Mo Ni K	Fe Pb Mg Mn Mo Ni K Se Ag	Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂
Circle Method(s) and Metal(s) to be analyzed	d Metal(s) to be	e analyz	ed									11					_	Hg: 1631/245.1/7470/747
Signature of this doc	ocument and relingu	ishment o	samples cor	nstitutes a valid	purchase order from cl	ient compa	iny to Eu	rofins X	enco, its	affiliates	and sub	ontract	8 9	tors. It assigns	ors. It assigns standard es are due to circumstan	ors. It assigns standard terms and c es are due to circumstances beyond t	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard, terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control
fins Xenco. A minimu	num charge of \$85.	00 will be a	pplied to each	n project and a c	of Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These	imple subn	nitted to	Eurofins	Xenco,	but not a	nalyzea.	hese tern	1 2	will be er	Will be enforced unit	will be enforced unless previous	terms will be enforced unless previously negotiated.	viii pe enrorced uniess previously negotiated.

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Date/Time

Relinquished by: (Signature)

Received by. (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

of Service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

eurofins

Xenco

13 14

Houston, TX (281) 24 Chain of Custody

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	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
mon comex www.			Work Order No

arlsbad, NM, 8	8220			City, State ZIP:										_	Report	ing: Le	/el II L	Leve	Ξ	JPSI/USI IRKT	Level V
832-541-7719			Email:	gmoreno@eart	hsys.ne										Deliver	ables:	EDB		D	DaPT Other:	
RDX FEDE	AL 21	1 #022	1	urn Around								ANAL	SIS	REQ.	JEST					Preservative Codes	Codes
6	ä		☑ Routine	Rush		Pres. Code														None: NO DI	DI Water: H ₂ O
Eddy Co	unty, N	M	Due Date:	Routine TA													4			Cool: Cool M	MeOH: Me
Gilbert Moreno	Santia	ago Giron	TAT starts the	day received by the	e lab, if																HNO ₃ : HN
			Гес	eived by 4:30pm		rs															NaOH: Na
SAMPLE RECEIPT Temp Bla	ank:	No Sec	Wet Ice:	(Ye) No		ete							-							H₃PO₄: HP	
(Yes)		Thermomet	er ID:	Mroc	7	ran														NaHSO ₄ : NABIS	
Yes No	\$	Correction F	actor:	20,2		Pa	4													Na ₂ S ₂ O ₃ : NaSO ₃	
Yes No		Temperatur	e Reading:	&. B															_	Zn Acetate+NaOH: Zn	
		Corrected T	emperature:	0.0				NM			h			L		L			Ц	NaOH+Ascorbic Acid: SAPC	Ц
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)		# or Cont	TPH -NM	Chloride-	BTEX-NM	Hold	24 Hr Rus									Sample Comments	nments
	S	5.2.25	11:30	0.5	Grab/	1	×	×	×											Incident Number	ımber
	S	5.2.25	11:35	2	Grab/	1	×	×	×											nAPP2506224384	24384
	S	5.2.25	11:40	0.5	Grab/	1	×	×	×												
	S	5.2.25	11:45	2	Grab/	1	×	×	×												
	S	5.2.25	11:50	0.5	Grab/	1	×	×	×												
	S	5.2.25	11:55	2	Grab/	1	×	×	×												
	S	5.2.25	12:00	4	Grab/	_	×	×	×												
					-		_	L													
Total 200.7 / 6010 200.8 / 60:	20:		8RCRA	13PPM Texas	≥	Sb A	s Ba	Ве	Cd		Y Co	5	e Pb	Mg	Mn M	o N	K Se	P S	02	√a Sr Tl Sn U V Zn	
Metal(s) to be	analyz	ed																_	lg: 16	331 / 245.1 / 7470 / 747	71
ument and relinquis	hment o	f samples con	stitutes a valid p	ourchase order from	client com	pany to	Eurofir	1s Xenc	o, its af	filiates :	and sub	ontract	ors. It a	ssigns	standar	d terms	and cor	ditions			
	City, State ZIP: Carlsbad, NM, 8 Phone: 832-541-7719 Project Name: RDX FEDEI Project Location: Eddy Co Sampler's Name: Gilbert Moreno, Project Location: Eddy Co Sample Received Intact: Yes No Sample Custody Seals: Yes No Sample Custody Seals: Yes No Total Containers: Yes No HA-6	RDX FEDERAL 2: RDX FEDERAL 2: 63 Eddy County N Gilbert Moreno, Santi- tact: Yes No WA Is: Yes No WA S S S S S S S S S S S S S S S S S S S	Project Name: RDX FEDERAL 21 #022	RDX FEDERAL 21 #022 T	City, State ZIP: 32-541-7719 Email: gmorreno@eart gmorreno@eart gmorreno@eart gmorreno@eart gmorreno@eart gmorreno@eart gmorreno@eart gmorreno@eart Routine Rush Eddy County, NM Due Date: Routine Tall Rush Rush	City, State ZIP:	City, State ZIP: 32-541-7719 Email: gmoreno@earthsys.net	City, State ZIP:	City, State ZIP:	Cation Matrix Sampled Sample	City State ZIP:	RDX FEDERAL 21 #022	ANAL State ZIP City, State ZIP	ANALYSIS State ZIP State	ROX FEDERAL 21 #022 Turn Around Girly, State Zire State Zire	City State ZIP:	Cation Matrix Sampled Sample	Control Cont	City, State ZIP:	City, Silez ZIP City County, NM Biz ZIP Turn Around Fresh, Fres	ADAPT □ ADAPT □ None: N Cool: Cl H; PO;: NaHSO Na; So; I; NaOH; Na

Phone: City, State ZIP: Address:

1910 Resource Ct. Earth Systems R&R Gilbert Moreno

> Company Name: Bill to: (if different)

Devon Energy

State of Project:

Work Order Comments

Page.

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Jim Raley

Project Manager: Company Name:

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8085-1

SDG Number: Eddy County, NM

List Source: Eurofins Carlsbad

Login Number: 8085 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Carlsbad

Released to Imaging: 7/11/2025 2:47:42 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8085-1

SDG Number: Eddy County, NM

List Source: Eurofins Midland

List Creation: 05/05/25 10:38 AM

Login Number: 8085 List Number: 2 Creator: Vasquez, Julisa

<6mm (1/4").

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

Eurofins Carlsbad

Released to Imaging: 7/11/2025 2:47:42 PM

Containers requiring zero headspace have no headspace or bubble is

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5/12/2025 (Rev. 1)

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 468956

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	468956
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2506224384
Incident Name	NAPP2506224384 RDX FEDERAL 21 #022 @ 30-015-40561
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-40561] RDX FEDERAL 21 #022

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX FEDERAL 21 #022
Date Release Discovered	03/02/2025
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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 67 BBL Recovered: 67 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Water transfer pump failed to run allowing water tank to overflow to lined secondary containment. Fluids fully recovered from lined secondary containment by vac truck.

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

QUESTIONS, Page 2

Action 468956

QUESTI	ONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 468956
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 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 releate the 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 to does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com

QUESTIONS

A 100-year floodplain

storage site

Did the release impact areas not on an exploration, development, production, or

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

QUESTIONS, Page 3

Action 468956

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	468956
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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 Between 100 and 500 (ft.) release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water **Attached Document** Did this release impact groundwater or surface water 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 1000 (ft.) and 1/2 (mi. Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Between 1000 (ft.) and 1/2 (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 Between 1 and 5 (mi.) for domestic or stock watering purposes 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.) Between 100 and 200 (ft.) A subsurface mine Greater than 5 (mi.) An (non-karst) unstable area Between 1 and 100 (ft.) Categorize the risk of this well / site being in a karst geology

No

Between 500 and 1000 (ft.)

Remediation Plan		
Please answer all the questions th	at apply or are indicated. This information must be provided t	o 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 der	nonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	4810
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	MAC unless the site characterization report includes complete elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date wil	I the remediation commence	05/25/2035
On what date will (or did) th	e final sampling or liner inspection occur	05/02/2025
On what date will (or was) t	he remediation complete(d)	05/25/2035
What is the estimated surfa	ce area (in square feet) that will be reclaimed	4520
What is the estimated volur	ne (in cubic yards) that will be reclaimed	670
What is the estimated surfa	ce area (in square feet) that will be remediated	4520
What is the estimated volur	ne (in cubic yards) that will be remediated	670
These estimated dates and measur	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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

QUESTIONS, Page 4

Action 468956

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	468956
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
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.	
D- 0.4- 4:- D- 540 45 00 44 NMAO		

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.

Name: James Raley
Title: EHS Professional
Email: jim.raley@dvn.com
Date: 05/29/2025

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.

Operator:

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 5

Action 468956

QUESTIONS (continued)

OGRID:

DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	468956	
	Action Type:	
	[C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS		
Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes	
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Aboveground tanks, separators, heater treaters and pipelines are still actively supplying nearby facilitiesand would require a major facility deconstruction and engineer to facilitate a safe excavation in which would destroy the repaired liner during activities	
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4520	
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	670	
	ately under or around production equipment such as production tanks, wellheads and pipelines where may be deferred with division written approval until the equipment is removed during other operations, or when	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.	
Enter the well API (30-) on which this deferral should be granted	30-015-40561 RDX FEDERAL 21 #022	
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef- which includes the anticipated timelines for beginning and completing the remediation.	orts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
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	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 05/29/2025	

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

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QUESTIONS, Page 6

Action 468956

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	468956
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	461597
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/02/2025
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	9000

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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CONDITIONS

Action 468956

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	468956
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Deferral approved. Deferral of HA-1 and HA-2 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will be required to be submitted at that time.	7/11/2025