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);
- Between 1 and 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Between 1 and 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between 1 and 5 miles of any other freshwater well or spring;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- 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
- 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

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 gmoreno@earthsys.net. NMOCD Documentation of correspondence are attached.

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

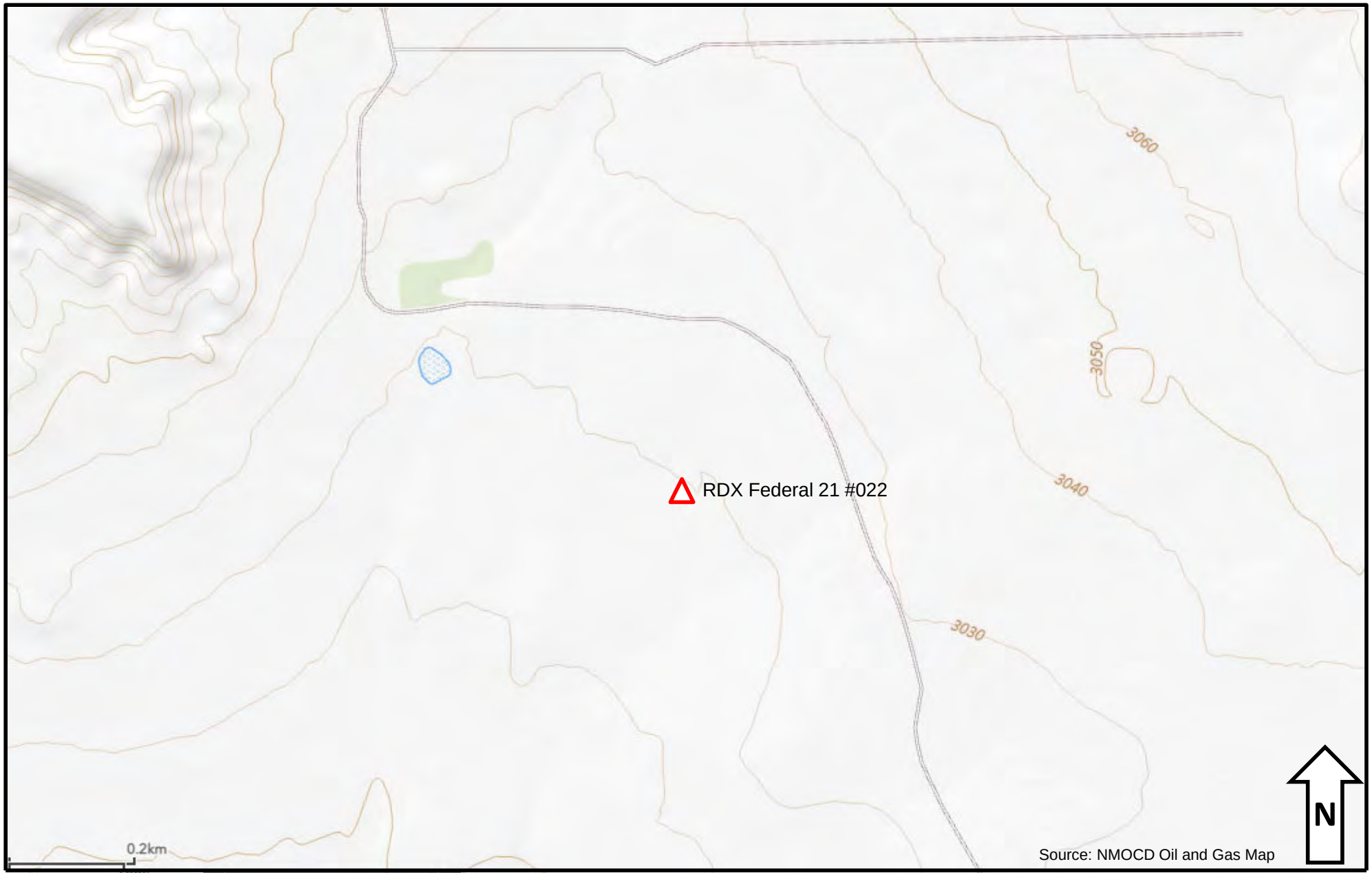
Gilbert Moreno
Carlsbad Operations Manager/ Project Geologist

Kris Williams, CHMM, REM
Principal

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

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



Earth Systems
Response & Restoration

Figure 1 – Site Map

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

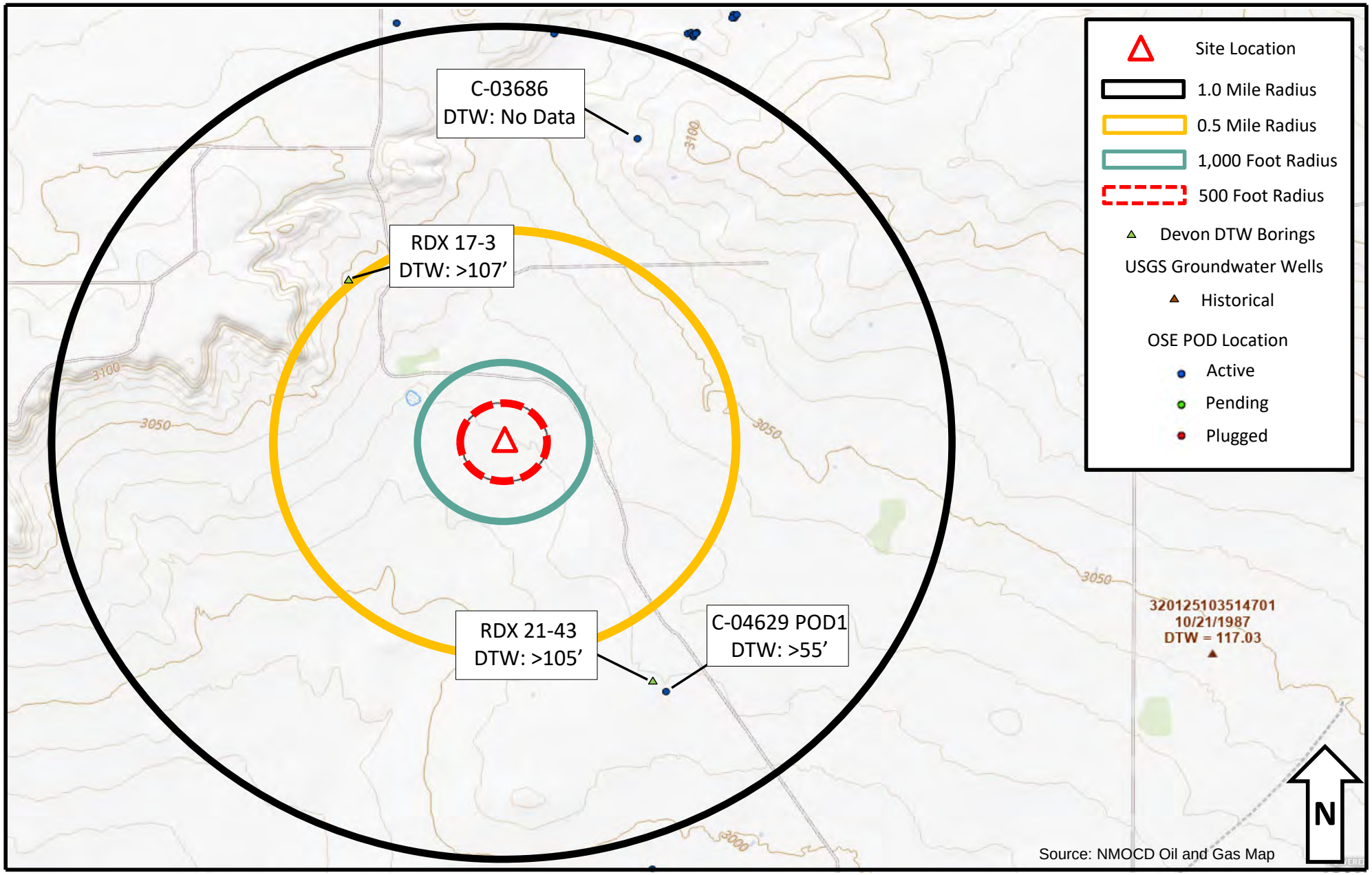
devon
WPXENERGY

Earth Systems Response & Restoration

Figure 2 – Release Extent

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

devon WPXENERGY

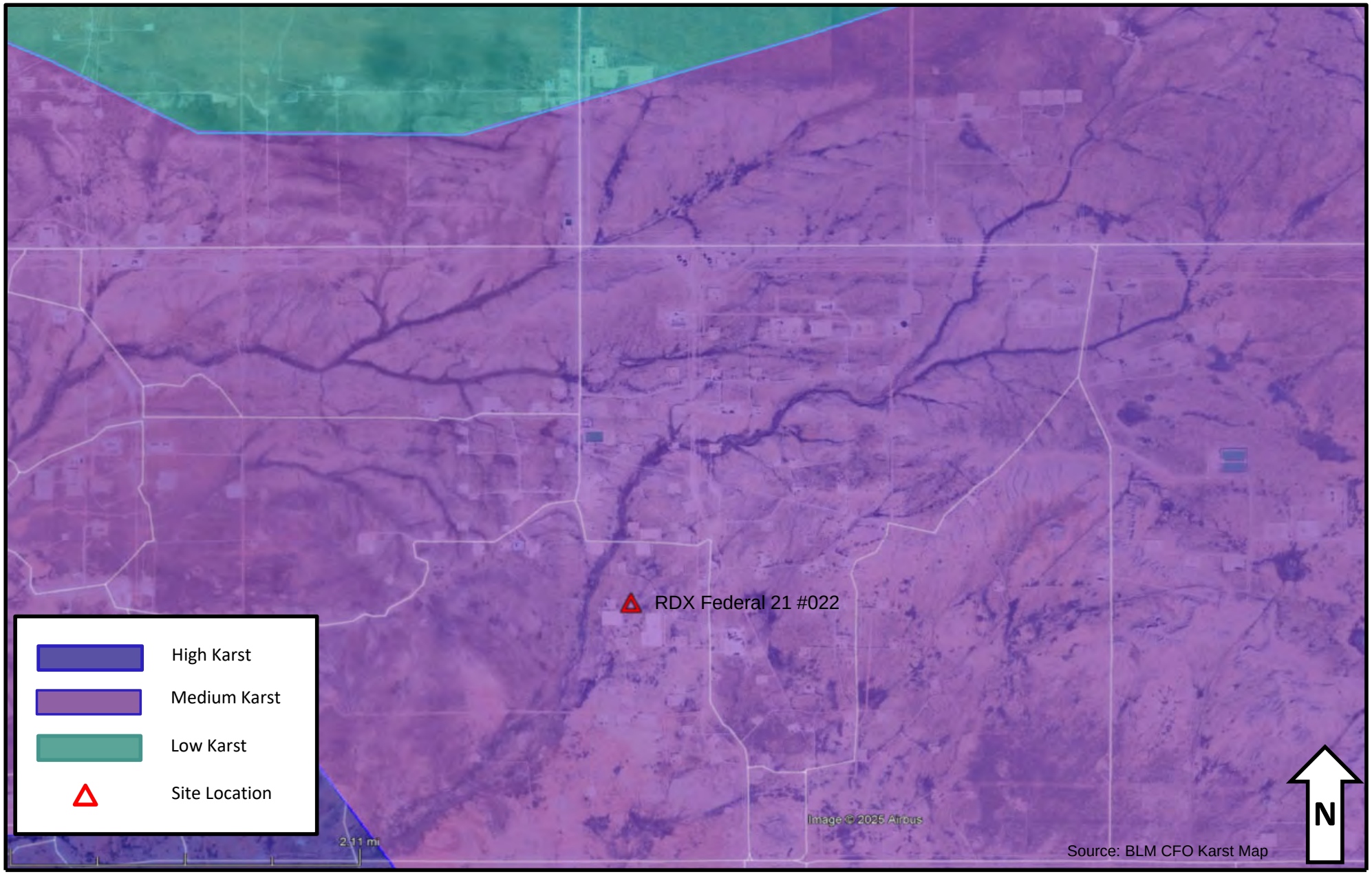


Earth Systems Response & Restoration

Figure 3 – Ground Water

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

devon WPXENERGY



Earth Systems
Response & Restoration

Figure 4– Karst Potential

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

devon
WPXENERGY

Earth Systems Response & Restoration

Figure 5 – Delineation Soil Sample Locations

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

devon WPXENERGY

Earth Systems
Response & Restoration

Figure 6 – Deferral Extent

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

devon
WPXENERGY

HRL COMPLIANCE SOLUTIONS

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW-1		Location: RDX 17 #3	
Date: 12/8/2020		Client: WPX Energy	
Drilling Method: Air Rotary	Sampling Method: None	Logged By: J. Linn, PG	Drilled By: Talon LPE
Gravel Pack Type: 10/20 Sand	Gravel Pack Depth Interval: 3 Bags	Seal Type: None / Seal Depth Interval: None	Latitude: 32.036765
Casing Type: PVC / Diameter: 2-inch / Depth Interval: 0-102 feet bgs		Boring Total Depth (ft. BGS): 107	Longitude: -103.895993
Screen Type: PVC / Slot: 0.010-inch / Diameter: 2-inch / Depth Interval: 102-107 ft		Well Total Depth (ft. BGS): 107	Depth to Water (ft. BTOC): > 107 / DTW Date: 12/16/2020

Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks	Well Completion
0	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand	
5										
10										
15										
20										
25										
30	NM	L	D	N	N	NM	SP	NS	Same as above with slight increase in coarse sand and gravel	
35										
40	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand with very slight silt	
45										
50										
55	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand	
60	NM	L	D	N	N	NM	SW	NS	Pale orange well graded fine sand	
65	NM	M	SL M	N	N	NM	SM	NS	Pale red orange clayey silty fine sand with minor coarse sand and gravel	
70										
75										
80										
85										
90	NM	L	SL M	N	N	NM	SP	NS	Pale orange poorly sorted fine sand - TD 107' BGS	
95										
100										
105										

HRL COMPLIANCE SOLUTIONS

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW-1		Location: RDX Federal Com 21-43	
Date: 12/9/2020		Client: WPX Energy	
Drilling Method: Air Rotary	Sampling Method: None	Logged By: J. Linn, P.G.	Drilled By: Talon LPE
Gravel Pack Type: 10/20 Sand	Gravel Pack Depth Interval: 3 Bags	Seal Type: None / Seal Depth Interval: None	Latitude: 32.022571
Casing Type: PVC / Diameter: 2-inch / Depth Interval: 0-100 feet bgs		Boring Total Depth (ft. BGS): 110	Longitude: -103.884371
Screen Type: PVC / Slot: 0.010-inch / Diameter: 2-inch / Depth Interval: 100 - 105 ft		Well Total Depth (ft. BGS): 105	Depth to Water (ft. BTOC): > 105 / DTW Date: 12/16/2020

Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks	Well Completion
0	NM	L	D	N	N	NM	SP	NS	Pale orange to tan poorly graded fine sand	
5										
10										
15										
20	NM	H	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche	
25	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand	
30										
35										
40										
45										
50	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay	
55										
60										
65	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay	
70										
75										
80	NM	M	D	N	N	NM	SC	NS	Buff to orange color fine sand with medium sand and clay	
85										
90										
95	NM	H	D	N	N	NM	CL	NS	Brown orange clay with silt and fine sand	
100	NM	H	D	N	N	NM	SC	NS	Golden yellow and buff colored clay with fine sand - TD Boring: 110' BGS; Sand 110' - 105' BGS	
105										

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

Earth Systems
Response & Restoration

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

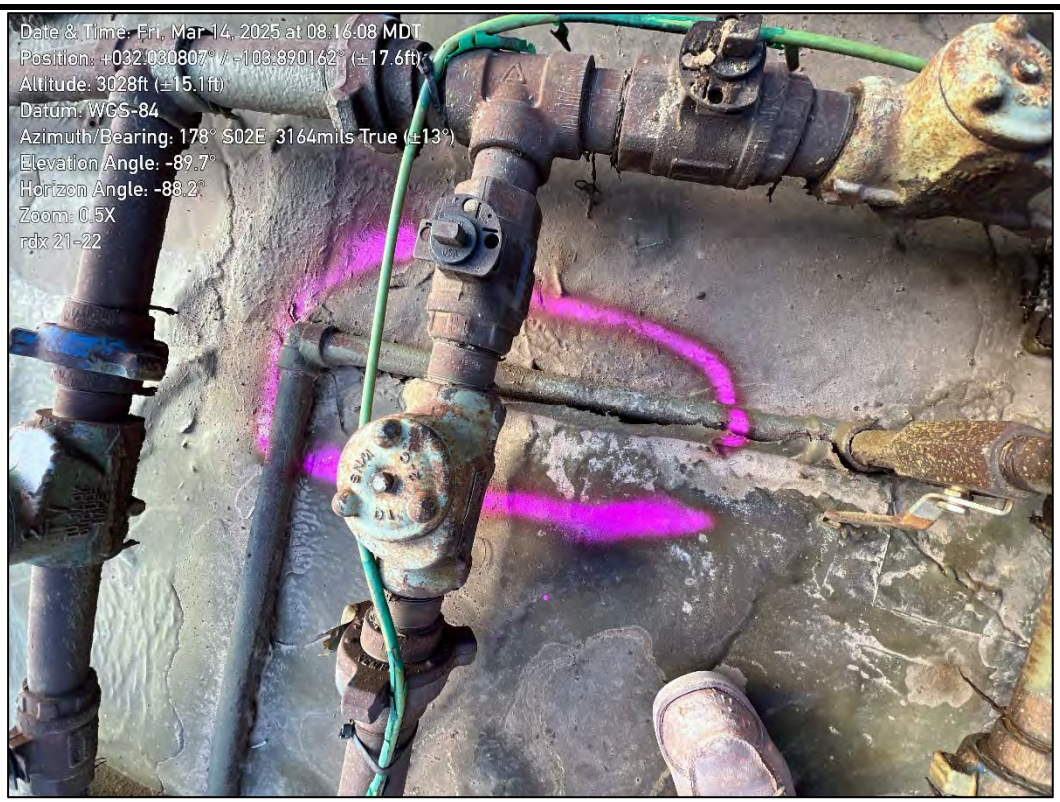


PHOTO 15: Southeastern view of failed liner integrity. 3/14/2025

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

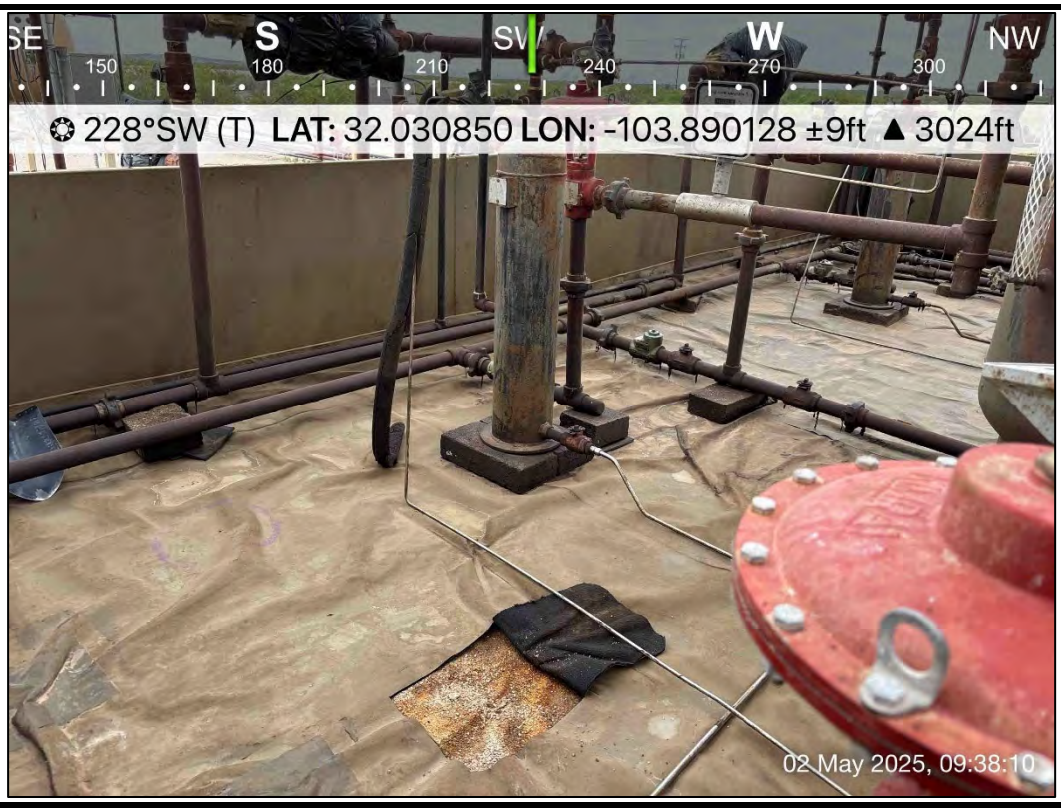


PHOTO 18: Southwestern view during delineation activities. 5/2/2025

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

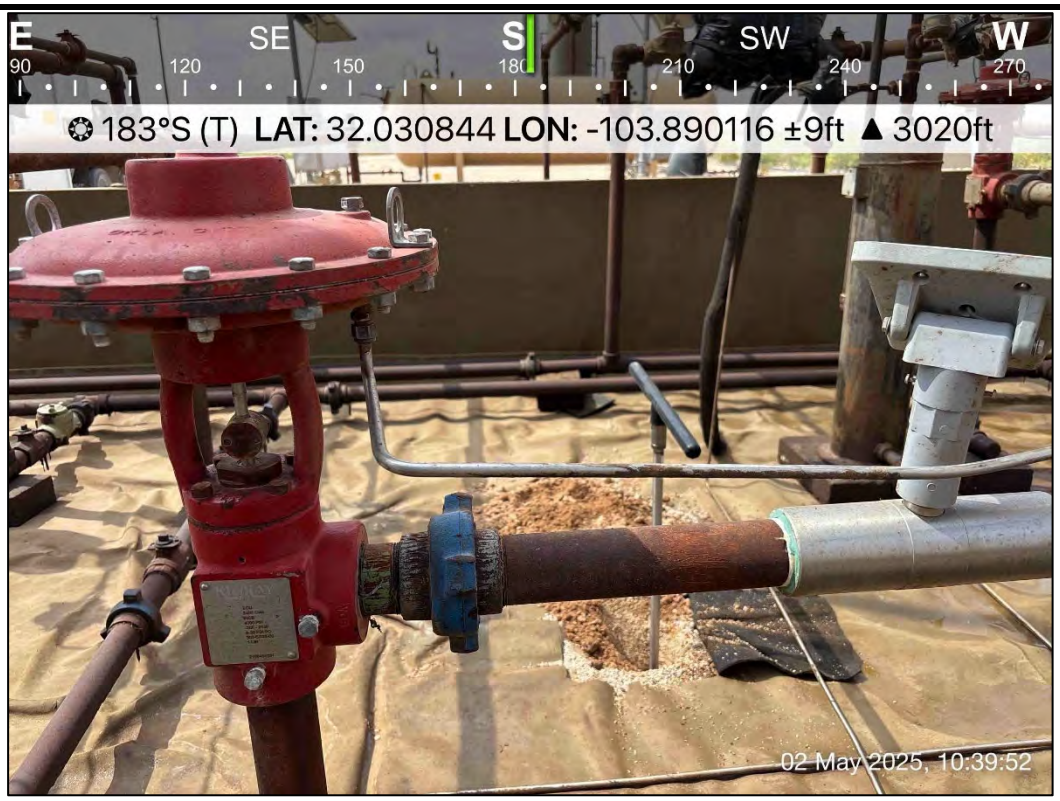


PHOTO 19: Southern view during delineation activities. 5/2/2025

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

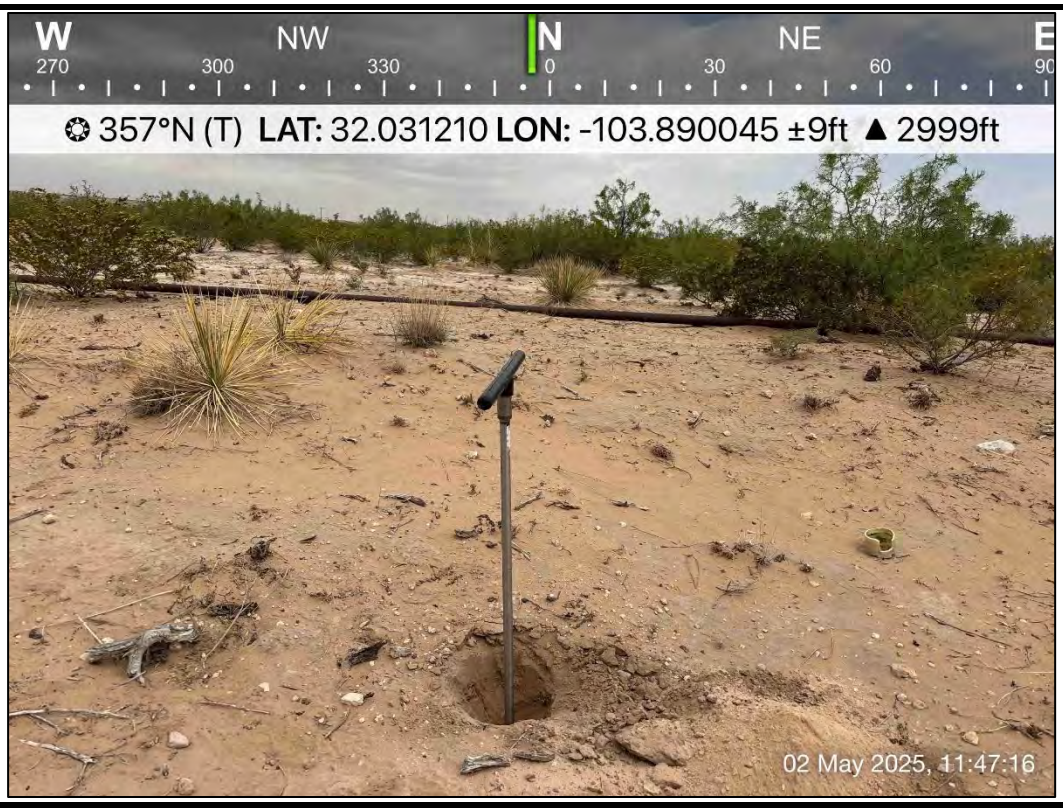


PHOTO 22: Northern view during delineation activities. 5/2/2025

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

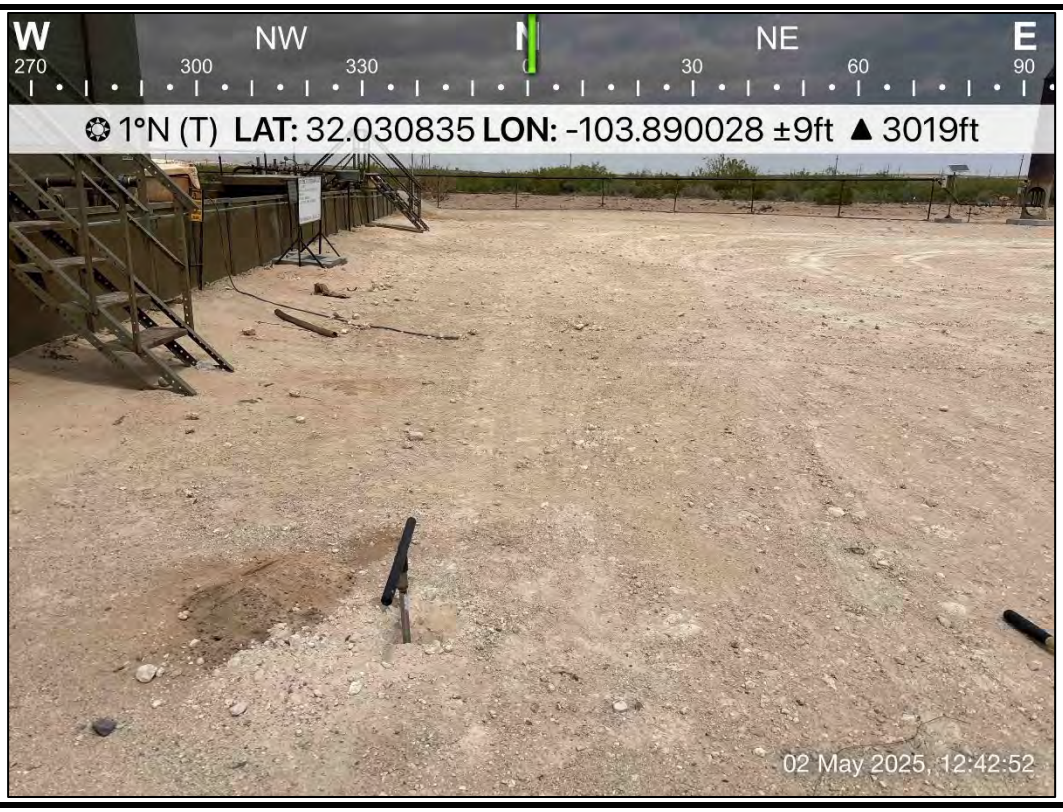


PHOTO 24: Northern view during delineation activities. 5/2/2025

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

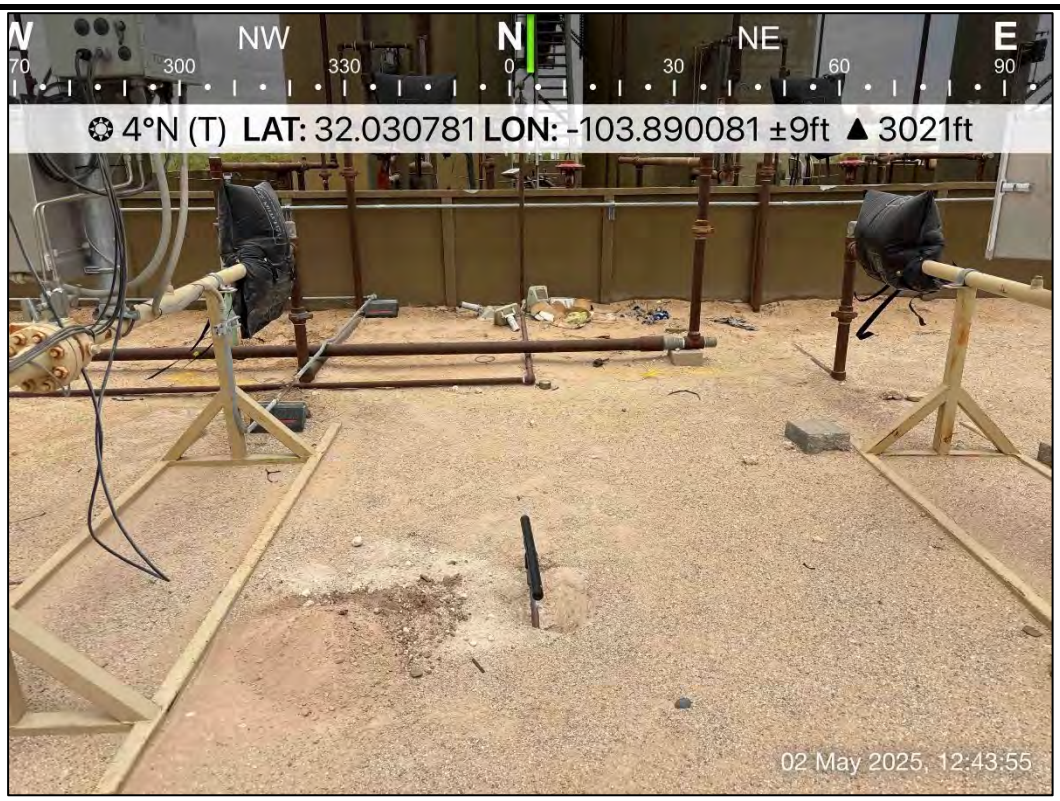


PHOTO 25: Northeastern view during delineation activities. 5/2/2025

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

Earth Systems
Response & Restoration

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

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

RDX Federal 21 #022 - Closure Request Report
Incident Number: nAPP2506224384
32.02094°, -103.96903°

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

Earth Systems Response & Restoration

devon WPXENERGY

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 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Samples - nAPP2506224384									
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

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

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

CONDITIONS

Created By	Condition	Condition Date
jraley	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

Outlook

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
To Gilbert Moreno <gmoreno@earthsys.net>

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

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

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

QUESTIONS

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

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**

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.	
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to sampling site	WPX failed to notify NMOCD of previous sampling activities completed on May 2, 2025. NMOCD has since granted a variance request toward 19.15.29.12D (1a) NMAC for acceptance of this C-141N. WPX will attach all correspondence in the Closure Report.

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

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

CONDITIONS

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

eurofins | 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

See page two for job notes and contact information.

my EOL

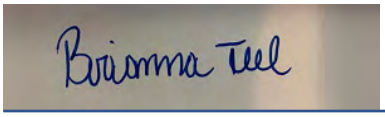
Eurofins Carlsbad

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



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

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Table of Contents

Definitions/Glossary

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

Job ID: 890-8085-1
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
F1	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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
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

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8085-1
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 (890-8085-8), HA-2 (890-8085-9), 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 (890-8085-21), 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 Job ID: 890-8085-1
Project: RDX FEDERAL 21 #022

Job ID: 890-8085-1 (Continued) Eurofins Carlsbad

recovery is within acceptance limits.

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

Client Sample Results

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

Job ID: 890-8085-1
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)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198		mg/Kg		05/05/25 10:09	05/06/25 23:24	1
Toluene	<0.00198	U F2 F1	0.00198		mg/Kg		05/05/25 10:09	05/06/25 23:24	1
Ethylbenzene	<0.00198	U F2 F1	0.00198		mg/Kg		05/05/25 10:09	05/06/25 23:24	1
m-Xylene & p-Xylene	<0.00396	U F2 F1	0.00396		mg/Kg		05/05/25 10:09	05/06/25 23:24	1
o-Xylene	<0.00198	U F2 F1	0.00198		mg/Kg		05/05/25 10:09	05/06/25 23:24	1
Xylenes, Total	<0.00396	U F2 F1	0.00396		mg/Kg		05/05/25 10:09	05/06/25 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/05/25 10:09*	*05/06/25 23:24*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/05/25 10:09*	*05/06/25 23:24*	*1*

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	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			05/07/25 22:44	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	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/07/25 22:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/07/25 22:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/07/25 22:44	1

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**448**		9.98		mg/Kg			05/05/25 18:46	1

Client Sample ID: HA-1

Date Collected: 05/02/25 10:05
Date Received: 05/02/25 14:43
Sample Depth: 1

Lab Sample ID: 890-8085-2
Matrix: Solid

Method: SW846 8021B - 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	05/06/25 23:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/06/25 23:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/06/25 23:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/06/25 23:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/06/25 23:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/06/25 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/05/25 10:09*	*05/06/25 23:44*	*1*

Client Sample Results

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

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

Client Sample ID: HA-1

Date Collected: 05/02/25 10:05
Date Received: 05/02/25 14:43
Sample Depth: 1

Lab Sample ID: 890-8085-2

Matrix: Solid

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		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	<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*	*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

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 8021B - 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*

Method: TAL SOP Total BTEX - Total BTEX 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

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			05/07/25 23:17	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-8085-1
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)

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	05/07/25 23:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/07/25 23:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/07/25 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*05/05/25 08:34*	*05/07/25 23:17*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/05/25 08:34*	*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	**2380**		50.4		mg/Kg			05/05/25 19:15	5

Client Sample ID: HA-1
Date Collected: 05/02/25 10:15
Date Received: 05/02/25 14:43
Sample Depth: 3

Lab Sample ID: 890-8085-4
Matrix: Solid

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

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)	*117*		*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 BTEX - Total BTEX Calculation

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

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			05/07/25 23:32	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	<49.8	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
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/07/25 23:32	1

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

Client Sample Results

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

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

Client Sample ID: HA-1
Date Collected: 05/02/25 10:15
Date Received: 05/02/25 14:43
Sample Depth: 3

Lab Sample ID: 890-8085-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - 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
Date Collected: 05/02/25 10:20
Date Received: 05/02/25 14:43
Sample Depth: 4

Lab Sample ID: 890-8085-5
Matrix: Solid

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

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)	*118*		*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 BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 00:45	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

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 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		10.0		mg/Kg			05/05/25 19:45	1

Client Sample Results

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

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

Client Sample ID: HA-2
Date Collected: 05/02/25 10:25
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Lab Sample ID: 890-8085-6
Matrix: Solid

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

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*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 01:06	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 00:22	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	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 00:22	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 00:22	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/05/25 08:34	05/08/25 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*05/05/25 08:34*	*05/08/25 00:22*	*1*
o-Terphenyl	*77*		*70 - 130*	*05/05/25 08:34*	*05/08/25 00:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2150**		49.5		mg/Kg			05/05/25 19:52	5

Client Sample ID: HA-2
Date Collected: 05/02/25 10:30
Date Received: 05/02/25 14:43
Sample Depth: 1

Lab Sample ID: 890-8085-7
Matrix: Solid

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

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)	*112*		*70 - 130*	*05/05/25 10:09*	*05/07/25 01:26*	*1*

Eurofins Carlsbad

Client Sample Results

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

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

Client Sample ID: HA-2

Date Collected: 05/02/25 10:30
Date Received: 05/02/25 14:43
Sample Depth: 1

Lab Sample ID: 890-8085-7
Matrix: Solid

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/07/25 01:26	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 00:37	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	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 00:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 00:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 00:37	1

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1930**		49.7		mg/Kg			05/05/25 20:00	5

Client Sample ID: HA-2

Date Collected: 05/02/25 10:35
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-8
Matrix: Solid

Method: SW846 8021B - 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 01:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 01:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 01:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 01:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 10:09	05/07/25 01:47	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 10:09	05/07/25 01:47	1

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/07/25 01:47	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 00:55	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-8085-1
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

Lab Sample ID: 890-8085-8
Matrix: Solid

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	<49.7	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, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**326**		9.92		mg/Kg			05/05/25 20:07	1

Client Sample ID: HA-2

Date Collected: 05/02/25 10:40
Date Received: 05/02/25 14:43
Sample Depth: 3

Lab Sample ID: 890-8085-9
Matrix: Solid

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

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*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/07/25 02:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 01:10	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	<49.9	U	49.9		mg/Kg		05/05/25 08:34	05/08/25 01:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/25 08:34	05/08/25 01:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/25 08:34	05/08/25 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*05/05/25 08:34*	*05/08/25 01:10*	*1*
o-Terphenyl	*81*		*70 - 130*	*05/05/25 08:34*	*05/08/25 01:10*	*1*

Client Sample Results

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

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

Client Sample ID: HA-2
Date Collected: 05/02/25 10:40
Date Received: 05/02/25 14:43
Sample Depth: 3

Lab Sample ID: 890-8085-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		10.0		mg/Kg			05/05/25 20:14	1

Client Sample ID: HA-2
Date Collected: 05/02/25 10:45
Date Received: 05/02/25 14:43
Sample Depth: 4

Lab Sample ID: 890-8085-10
Matrix: Solid

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

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)	*116*		*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 SOP Total BTEX - Total BTEX Calculation

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

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	<49.8	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

Client Sample Results

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

Job ID: 890-8085-1
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

Lab Sample ID: 890-8085-11
Matrix: Solid

Method: SW846 8021B - 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 04:02	1
Toluene	<0.00202	U	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 BTEX Calculation

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

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	<49.7	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*
o-Terphenyl	*83*		*70 - 130*	*05/05/25 08:34*	*05/08/25 01:42*	*1*

Method: 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	1

Client Sample ID: HA-3

Date Collected: 05/02/25 10:55
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-12
Matrix: Solid

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

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*

Eurofins Carlsbad

Client Sample Results

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

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

Client Sample ID: HA-3

Date Collected: 05/02/25 10:55
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-12
Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*05/05/25 10:09*	*05/07/25 04:22*	*1*

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			05/07/25 04:22	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 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	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

Date Collected: 05/02/25 11:00
Date Received: 05/02/25 14:43
Sample Depth: 4

Lab Sample ID: 890-8085-13
Matrix: Solid

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

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*

Method: TAL SOP Total BTEX - Total BTEX 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 Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 02:14	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-8085-1
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

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	<49.9	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, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		10.0		mg/Kg			05/05/25 21:50	1

Client Sample ID: HA-4

Lab Sample ID: 890-8085-14
Matrix: Solid
Date Collected: 05/02/25 11:05
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Method: SW846 8021B - 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 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*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/07/25 05:03	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 02:30	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	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 02:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:34	05/08/25 02:30	1
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*
1-Chlorooctane	*85*		*70 - 130*	*05/05/25 08:34*	*05/08/25 02:30*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/05/25 08:34*	*05/08/25 02:30*	*1*

Client Sample Results

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

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

Client Sample ID: HA-4
Date Collected: 05/02/25 11:05
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Lab Sample ID: 890-8085-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - 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
Date Collected: 05/02/25 11:10
Date Received: 05/02/25 14:43
Sample Depth: 2

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

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

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)	*112*		*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*

Method: TAL SOP Total BTEX - Total BTEX Calculation

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 - Diesel Range Organics (DRO) (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

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	<50.1	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, Ion Chromatography - Soluble

Analyte	Result	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
Project/Site: RDX FEDERAL 21 #022

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

Client Sample ID: HA-4

Date Collected: 05/02/25 11:15
Date Received: 05/02/25 14:43
Sample Depth: 4

Lab Sample ID: 890-8085-16
Matrix: Solid

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

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 05:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 10:09	05/07/25 05:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 10:09	05/07/25 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/05/25 10:09*	*05/07/25 05:44*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/05/25 10:09*	*05/07/25 05:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/07/25 05:44	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			05/07/25 21:25	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 21:25	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*

Method: EPA 300.0 - Anions, Ion Chromatography - 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

Date Collected: 05/02/25 11:20
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Lab Sample ID: 890-8085-17
Matrix: Solid

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

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)	*115*		*70 - 130*	*05/05/25 10:09*	*05/07/25 06:05*	*1*

Eurofins Carlsbad

Client Sample Results

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

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
Sample Depth: 0.5

Lab Sample ID: 890-8085-17
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*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

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

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			05/07/25 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

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

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

Method: SW846 8021B - 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 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 BTEX - Total BTEX Calculation

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 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 21:57	1

Eurofins Carlsbad

Client Sample Results

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

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	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, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		9.92		mg/Kg			05/05/25 22:42	1

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: SW846 8021B - Volatile Organic Compounds (GC)

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 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 BTEX Calculation

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

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			05/07/25 22:12	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	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/07/25 22:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/07/25 22:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/07/25 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/05/25 08:37*	*05/07/25 22:12*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/05/25 08:37*	*05/07/25 22:12*	*1*

Client Sample Results

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

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

Client Sample ID: HA-6
Date Collected: 05/02/25 11:30
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Lab Sample ID: 890-8085-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	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
Date Collected: 05/02/25 11:35
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-20
Matrix: Solid

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

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)	*112*		*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 BTEX Calculation

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 - 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			05/07/25 22:28	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	<49.8	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, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.1		9.94		mg/Kg			05/05/25 22:56	1

Client Sample Results

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

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

Client Sample ID: HA-7

Date Collected: 05/02/25 11:40
Date Received: 05/02/25 14:43
Sample Depth: 0.5

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

Method: SW846 8021B - 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 10:07	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 BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/08/25 16:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (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 - 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, Ion Chromatography - 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

Date Collected: 05/02/25 11:45
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (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 17:09	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*

Eurofins Carlsbad

Client Sample Results

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

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

Client Sample ID: HA-7

Date Collected: 05/02/25 11:45
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-22
Matrix: Solid

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

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*

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			05/08/25 17:09	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			05/07/25 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*	*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

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

Client Sample ID: HA-8

Date Collected: 05/02/25 11:50
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Lab Sample ID: 890-8085-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (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*

Method: TAL SOP Total BTEX - Total BTEX 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

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			05/07/25 23:17	1

Eurofins Carlsbad

Client Sample Results

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

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

Client Sample ID: HA-8
Date Collected: 05/02/25 11:50
Date Received: 05/02/25 14:43
Sample Depth: 0.5

Lab Sample ID: 890-8085-23
Matrix: Solid

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	<49.8	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
Date Collected: 05/02/25 11:55
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-24
Matrix: Solid

Method: SW846 8021B - 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 10:07	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*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/08/25 17:50	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			05/07/25 23:32	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	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 23:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 23:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/07/25 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/05/25 08:37*	*05/07/25 23:32*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/05/25 08:37*	*05/07/25 23:32*	*1*

Client Sample Results

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

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

Client Sample ID: HA-8
Date Collected: 05/02/25 11:55
Date Received: 05/02/25 14:43
Sample Depth: 2

Lab Sample ID: 890-8085-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		9.94		mg/Kg			05/05/25 23:40	1

Client Sample ID: HA-8
Date Collected: 05/02/25 12:00
Date Received: 05/02/25 14:43
Sample Depth: 4

Lab Sample ID: 890-8085-25
Matrix: Solid

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

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 SOP Total BTEX - Total BTEX Calculation

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

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	05/08/25 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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8085-1	HA-1	118	90
890-8085-1 MS	HA-1	116	90
890-8085-1 MSD	HA-1	111	89
890-8085-2	HA-1	117	83
890-8085-3	HA-1	115	87
890-8085-4	HA-1	117	86
890-8085-5	HA-1	118	86
890-8085-6	HA-2	109	87
890-8085-7	HA-2	112	89
890-8085-8	HA-2	119	82
890-8085-9	HA-2	117	88
890-8085-10	HA-2	116	89
890-8085-11	HA-3	110	88
890-8085-12	HA-3	121	87
890-8085-13	HA-3	108	87
890-8085-14	HA-4	114	86
890-8085-15	HA-4	112	83
890-8085-16	HA-4	111	86
890-8085-17	HA-5	115	87
890-8085-18	HA-5	105	84
890-8085-19	HA-6	117	86
890-8085-20	HA-6	112	85
890-8085-21	HA-7	89	82
890-8085-22	HA-7	88	97
890-8085-23	HA-8	92	81
890-8085-24	HA-8	90	77
890-8085-25	HA-8	95	82
LCS 880-109408/1-A	Lab Control Sample	112	107
LCS 880-109409/1-A	Lab Control Sample	118	89
LCSD 880-109408/2-A	Lab Control Sample Dup	109	97
LCSD 880-109409/2-A	Lab Control Sample Dup	109	87
MB 880-109408/5-A	Method Blank	91	99
MB 880-109409/5-A	Method Blank	109	86
MB 880-109448/5-A	Method Blank	109	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

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)

Lab Sample ID: MB 880-109408/5-A
Matrix: Solid
Analysis Batch: 109698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109408

Analyte	MB Result	MB 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

Surrogate	*MB %Recovery*	*MB 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*

Lab Sample ID: LCS 880-109408/1-A
Matrix: Solid
Analysis Batch: 109698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

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

Lab Sample ID: LCSD 880-109408/2-A
Matrix: Solid
Analysis Batch: 109698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD 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

Analyte	MB Result	MB 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

QC Sample Results

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) (Continued)

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

Analyte	MB Result	MB 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

Surrogate	*MB %Recovery*	*MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08511		mg/Kg		85	70 - 130
Toluene	0.100	0.09207		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1973		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09085		mg/Kg		91	70 - 130

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

Lab Sample ID: LCSD 880-109409/2-A
Matrix: Solid
Analysis Batch: 109477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109409

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

QC Sample Results

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) (Continued)

Lab Sample ID: 890-8085-1 MS
Matrix: Solid
Analysis Batch: 109477

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 109409

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

Surrogate	*MS %Recovery*	*MS 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

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 109409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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	<0.00198	U F2 F1	0.100	0.08960	F2	mg/Kg		90	70 - 130	141	35
m-Xylene & p-Xylene	<0.00396	U F2 F1	0.200	0.05824	F2 F1	mg/Kg		29	70 - 130	62	35
o-Xylene	<0.00198	U F2 F1	0.100	0.08708	F2	mg/Kg		87	70 - 130	133	35

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

Lab Sample ID: MB 880-109448/5-A
Matrix: Solid
Analysis Batch: 109477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109448

Analyte	MB Result	MB 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

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/05/25 14:44*	*05/06/25 11:33*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/05/25 14:44*	*05/06/25 11:33*	*1*

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

Lab Sample ID: MB 880-109378/1-A
Matrix: Solid
Analysis Batch: 109644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109378

Analyte	MB Result	MB 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	05/07/25 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/07/25 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:34	05/07/25 19:49	1

QC Sample Results

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

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

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

Surrogate	MB %Recovery	MB 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
Matrix: Solid
Analysis Batch: 109644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109378

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

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

Lab Sample ID: LCSD 880-109378/3-A
Matrix: Solid
Analysis Batch: 109644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109378

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	986.7		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		101	70 - 130	4	20

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

Lab Sample ID: MB 880-109379/1-A
Matrix: Solid
Analysis Batch: 109646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109379

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

QC Sample Results

Client: Earth Systems Response and Restoration
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

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109379

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1114		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1235		mg/Kg		124	70 - 130		

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

Lab Sample ID: LCSD 880-109379/3-A
Matrix: Solid
Analysis Batch: 109646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109379

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1125		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1270		mg/Kg		127	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD 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
Prep Batch: 109379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	869.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	995	830.2		mg/Kg		83	70 - 130		

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

Lab Sample ID: 890-8085-15 MSD
Matrix: Solid
Analysis Batch: 109646

Client Sample ID: HA-4
Prep Type: Total/NA
Prep Batch: 109379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	870.6		mg/Kg		87	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.1	U	995	865.6		mg/Kg		87	70 - 130	4	20

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

QC Sample Results

Client: Earth Systems Response and Restoration
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

Client Sample ID: HA-4
Prep Type: Total/NA
Prep Batch: 109379

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	95		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109429/1-A
Matrix: Solid
Analysis Batch: 109438

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/05/25 16:47	1

Lab Sample ID: LCS 880-109429/2-A
Matrix: Solid
Analysis Batch: 109438

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	233.1		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-109429/3-A
Matrix: Solid
Analysis Batch: 109438

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	230.6		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 890-8085-2 MS
Matrix: Solid
Analysis Batch: 109438

Client Sample ID: HA-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4810	F1	1250	5788	F1	mg/Kg		78	90 - 110		

Lab Sample ID: 890-8085-2 MSD
Matrix: Solid
Analysis Batch: 109438

Client Sample ID: HA-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4810	F1	1250	5812	F1	mg/Kg		80	90 - 110	0	20

Lab Sample ID: MB 880-109445/1-A
Matrix: Solid
Analysis Batch: 109446

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/05/25 21:06	1

QC Sample Results

Client: Earth Systems Response and Restoration
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

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

Lab Sample ID: LCSD 880-109445/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109446

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	234.7		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 890-8085-12 MS — **Client Sample ID: HA-3**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109446

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

Lab Sample ID: 890-8085-12 MSD — **Client Sample ID: HA-3**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	116		252	351.7		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-8085-22 MS — **Client Sample ID: HA-7**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109446

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

Lab Sample ID: 890-8085-22 MSD — **Client Sample ID: HA-7**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	108		250	350.8		mg/Kg		97	90 - 110	0	20

QC Association Summary

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

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

Job ID: 890-8085-1
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

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
Project/Site: RDX FEDERAL 21 #022

Job ID: 890-8085-1
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 Batch
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

QC Association Summary

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

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

Job ID: 890-8085-1
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

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

Lab Chronicle

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

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

Client Sample ID: HA-1
Date Collected: 05/02/25 10:00
Date Received: 05/02/25 14:43

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 10:05
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-2
Matrix: Solid

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 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 MID
Soluble	Analysis	300.0		5			109438	05/05/25 19:15	CH	EET MID

Client Sample ID: HA-1
Date Collected: 05/02/25 10:15
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: HA-1
Date Collected: 05/02/25 10:15
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 10:20
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 10:25
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 10:30
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 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	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 00:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-8085-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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

Lab Sample ID: 890-8085-8
Matrix: Solid

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	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

Client Sample ID: HA-2
Date Collected: 05/02/25 10:40
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 10:45
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: HA-3
Date Collected: 05/02/25 10:50
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-11
Matrix: Solid

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

Lab Sample ID: 890-8085-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 04:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/07/25 04:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/08/25 01:59	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 01:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 21:28	CH	EET MID

Client Sample ID: HA-3
Date Collected: 05/02/25 11:00
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 11:05
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-14
Matrix: Solid

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	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

Eurofins Carlsbad

Lab Chronicle

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

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

Client Sample ID: HA-4
Date Collected: 05/02/25 11:05
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 11:10
Date Received: 05/02/25 14:43

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 11:15
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 11:20
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	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	05/07/25 21:41	TKC	EET MID

Lab Chronicle

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

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

Lab Sample ID: 890-8085-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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

Client Sample ID: HA-5
Date Collected: 05/02/25 11:25
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-18
Matrix: Solid

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	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

Client Sample ID: HA-6
Date Collected: 05/02/25 11:30
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 11:35
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

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

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 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/08/25 16:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 22:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 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 22:44	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 23:04	CH	EET MID

Client Sample ID: HA-7
Date Collected: 05/02/25 11:45
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 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 17:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109630	05/08/25 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			109724	05/07/25 23:00	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	05/07/25 23:00	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109445	05/05/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109446	05/05/25 23:11	CH	EET MID

Client Sample ID: HA-8
Date Collected: 05/02/25 11:50
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Collected: 05/02/25 11:55
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-24
Matrix: Solid

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

Lab Chronicle

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

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

Client Sample ID: HA-8
Date Collected: 05/02/25 11:55
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Date Received: 05/02/25 14:43

Lab Sample ID: 890-8085-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

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
890-8085-25	HA-8	Solid	05/02/25 12:00	05/02/25 14:43	4

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
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

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	RDX FEDERAL 21 #022	**Turn Around**	
Project Number:	63	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
PO/WO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNAM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	Pres. Code	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-1	S	5.2.25	10:00	0.5	Grab/	1		X	X	X			Incident Number
HA-1	S	5.2.25	10:05	1	Grab/	1		X	X	X			nAPP2506224384
HA-1	S	5.2.25	10:10	2	Grab/	1		X	X	X			
HA-1	S	5.2.25	10:15	3	Grab/	1		X	X	X			
HA-1	S	5.2.25	10:20	4	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:25	0.5	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:30	1	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:35	2	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:40	3	Grab/	1		X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		14:43 5/2	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719 Email:	gmoreno@earthsys.net	

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	RDX FEDERAL 21 #022	**Turn Around**	
Project Number:	63	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
PO/WO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TW-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	0.2	
Total Containers:		Corrected Temperature:	0.0	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-2	S	5.2.25	10:45	4	Grab/	1		X	X	X			Incident Number
HA-3	S	5.2.25	10:50	0.5	Grab/	1		X	X	X			nAPP2506224384
HA-3	S	5.2.25	10:55	2	Grab/	1		X	X	X			
HA-3	S	5.2.25	11:00	4	Grab/	1		X	X	X			
HA-4	S	5.2.25	11:05	0.5	Grab/	1		X	X	X			
HA-4	S	5.2.25	11:10	2	Grab/	1		X	X	X			
HA-4	S	5.2.25	11:15	4	Grab/	1		X	X	X			
HA-5	S	5.2.25	11:20	0.5	Grab/	1		X	X	X			
HA-5	S	5.2.25	11:25	2	Grab/	1		X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		14:47 5/2			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	RDX FEDERAL 21 #022	**Turn Around**	
Project Number:	63	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
PO/WO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-6	S	5.2.25	11:30	0.5	Grab/	1	X	X	X			Incident Number
HA-6	S	5.2.25	11:35	2	Grab/	1	X	X	X			nAPP2506224384
HA-7	S	5.2.25	11:40	0.5	Grab/	1	X	X	X			
HA-7	S	5.2.25	11:45	2	Grab/	1	X	X	X			
HA-8	S	5.2.25	11:50	0.5	Grab/	1	X	X	X			
HA-8	S	5.2.25	11:55	2	Grab/	1	X	X	X			
HA-8	S	5.2.25	12:00	4	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		14:43 5/2	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
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

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	RDX FEDERAL 21 #022	**Turn Around**	
Project Number:	63	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
PO/WO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNAM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	Pres. Code	ANALYSIS REQUEST: TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-1	S	5.2.25	10:00	0.5	Grab/	1		X	X	X			Incident Number
HA-1	S	5.2.25	10:05	1	Grab/	1		X	X	X			nAPP2506224384
HA-1	S	5.2.25	10:10	2	Grab/	1		X	X	X			
HA-1	S	5.2.25	10:15	3	Grab/	1		X	X	X			
HA-1	S	5.2.25	10:20	4	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:25	0.5	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:30	1	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:35	2	Grab/	1		X	X	X			
HA-2	S	5.2.25	10:40	3	Grab/	1		X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		14:43 5/2	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719 Email:	gmoreno@earthsys.net	

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	RDX FEDERAL 21 #022	**Turn Around**	
Project Number:	63	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
PO/WO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TW-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	0.2	
Total Containers:		Corrected Temperature:	0.0	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-2	S	5.2.25	10:45	4	Grab/	1		X	X	X			Incident Number
HA-3	S	5.2.25	10:50	0.5	Grab/	1		X	X	X			nAPP2506224384
HA-3	S	5.2.25	10:55	2	Grab/	1		X	X	X			
HA-3	S	5.2.25	11:00	4	Grab/	1		X	X	X			
HA-4	S	5.2.25	11:05	0.5	Grab/	1		X	X	X			
HA-4	S	5.2.25	11:10	2	Grab/	1		X	X	X			
HA-4	S	5.2.25	11:15	4	Grab/	1		X	X	X			
HA-5	S	5.2.25	11:20	0.5	Grab/	1		X	X	X			
HA-5	S	5.2.25	11:25	2	Grab/	1		X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		14:47 5/2			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	RDX FEDERAL 21 #022	**Turn Around**	
Project Number:	63	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	Routine TAT
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm	
PO/WO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.0

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	Parameters: TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-6	S	5.2.25	11:30	0.5	Grab/	1	X	X	X			Incident Number
HA-6	S	5.2.25	11:35	2	Grab/	1	X	X	X			nAPP2506224384
HA-7	S	5.2.25	11:40	0.5	Grab/	1	X	X	X			
HA-7	S	5.2.25	11:45	2	Grab/	1	X	X	X			
HA-8	S	5.2.25	11:50	0.5	Grab/	1	X	X	X			
HA-8	S	5.2.25	11:55	2	Grab/	1	X	X	X			
HA-8	S	5.2.25	12:00	4	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

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 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0		14:43 5/2	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

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

Login Number: 8085
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

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

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

List Source: Eurofins Midland
List Creation: 05/05/25 10:38 AM

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	

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: 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

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 for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | 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.

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 (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. 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 safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 05/29/2025

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 (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

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl 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
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.	
On what estimated date will the remediation commence	05/25/2035
On what date will (or did) the final sampling or liner inspection occur	05/02/2025
On what date will (or was) the remediation complete(d)	05/25/2035
What is the estimated surface area (in square feet) that will be reclaimed	4520
What is the estimated volume (in cubic yards) that will be reclaimed	670
What is the estimated surface area (in square feet) that will be remediated	4520
What is the estimated volume (in cubic yards) that will be remediated	670
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally 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.	

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 (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

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.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 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.	

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 (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

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
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
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 efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 05/29/2025

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 (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

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

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

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)

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