



December 5, 2024

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

RE: **Ross Draw Unit #040 - Closure Request Report**  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°  
Eddy County, New Mexico  
ESRR Project No. 2434

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil and produced water at the Ross Draw Unit #040 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

### Site Location & Incident Description

The Site is located in Unit H, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.03078°, -103.86375°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

On September 4, 2024, a corroded flowline ruptured, causing the release of approximately 1 barrel (bbl) of crude oil and 10 bbls of produced water onto a WPX production pad surface. A vacuum truck was immediately dispatched to the Site and recovered 10 bbls of fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on September 4, 2024, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). WPX gave notice to the New Mexico Oil Conservation Division (NMOCD) on September 9, 2024, by Notification of Release (NOR) and a Corrective Action Form C-141 (Form C-141) and was subsequently assigned Incident Number nAPP2425330146. On September 9, 2024, the NMOCD rejected the Form C-141 for the following reasons:

- *"The OCD requests actual calculations, not just the formula."*

On November 13, 2024, WPX resubmitted the Form C-141 including the attached calculations, which were approved by the NMOCD on November 14, 2024.

On December 2, 2024, WPX requested an extension of the December 3, 2024 deadline to allow additional time for ESRR to finalize this CRR and was granted a 90-day extension by the NMOCD for March 3, 2024.

### Site Characterization

Ross Draw Unit #040 - Closure Request Report  
 Incident Number: nAPP2425330146  
 GPS: 32.03078°, -103.86375°



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:

- Greater than 5 miles of any continuously flowing watercourse or any other significant watercourse;
- Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Greater than 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Greater than 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Greater than 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 1,000 and ½ mile of any wetland;
- Greater than 5 miles of any subsurface mine;
- Between 1 and 5 miles of any unstable area (i.e. high karst potential); and
- Between 1 and 5 miles of a 100-year floodplain.

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

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

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

<sup>‡</sup>The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.  
 Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

**Delineation Activities**

On September 16 and 17, 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Nineteen delineation boreholes (HA-1 through HA-19) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Envirotech in Farmington, New Mexico, for analysis of the COCs. **Soil Sampling Logs** and **Photographic Documentation** of all activities are attached.

Laboratory analytical results for soil samples collected surrounding the AOC (HA-9 through HA-19) were compliant with Site Closure Criteria and/ or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for samples collected within the AOC (HA-1 through HA-8) indicated either TPH-GRO+TPH-DRO/TPH and/or chloride were above the Site Closure Criteria and/or the reclamation standard up to 4 feet bgs. Elevated chloride concentrations were characterized by concentrations ranging

Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°



from 20,700 mg/kg to 25,000 mg/kg. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 5,688 mg/kg to 24,088 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

## Remediation Activities

From October 30 through November 4, 2024, ESRR oversaw excavation activities of identified impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths approximately ranging from 1-foot to 1.5-feet bgs.

Following the removal of soil, ESRR collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-30) and sidewalls (SW-1 through SW-4). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

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

Approximately 494 cubic yards (CY) of impacted soil was removed from the Site and transported to R360 Red Bluff in Orla, Texas under WPX approved manifests. Upon receipt of the final confirmation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion.

## Closure Request

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

WPX will reassess the Site during plugging and abandonment activities and address soil concentrations above the reclamation requirements of 100 mg/kg TPH and 600 mg/kg chloride (**Figure 4**). The final remediation will be confirmed via final confirmation sampling and is subject to change. As such, NFA appears warranted at this time, and WPX respectfully requests Closure of this CRR associated with Incident Number nAPP2425330146.

Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°



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

Sincerely,

**EARTH SYSTEMS RESPONSE & RESTORATION**

A handwritten signature in black ink, appearing to read "Gilbert Moreno".

Gilbert Moreno  
Carlsbad Operations Manager-Project Geologist

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

Attachments:

- Figure 1 - Site Map
- Figure 1A - Ground Water
- Figure 1B - Karst Potential
- Figure 2 - Delineation Soil Sample Locations
- Figure 3 - Excavation Soil Sample Locations
- Figure 4 - Future Restoration Areas
- Referenced Well Records
- Soil Sampling Logs
- Photographic Documentation
- Table 1 - Soil Sample Analytical Results
- NMOCD Email Documentation & Correspondance
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports



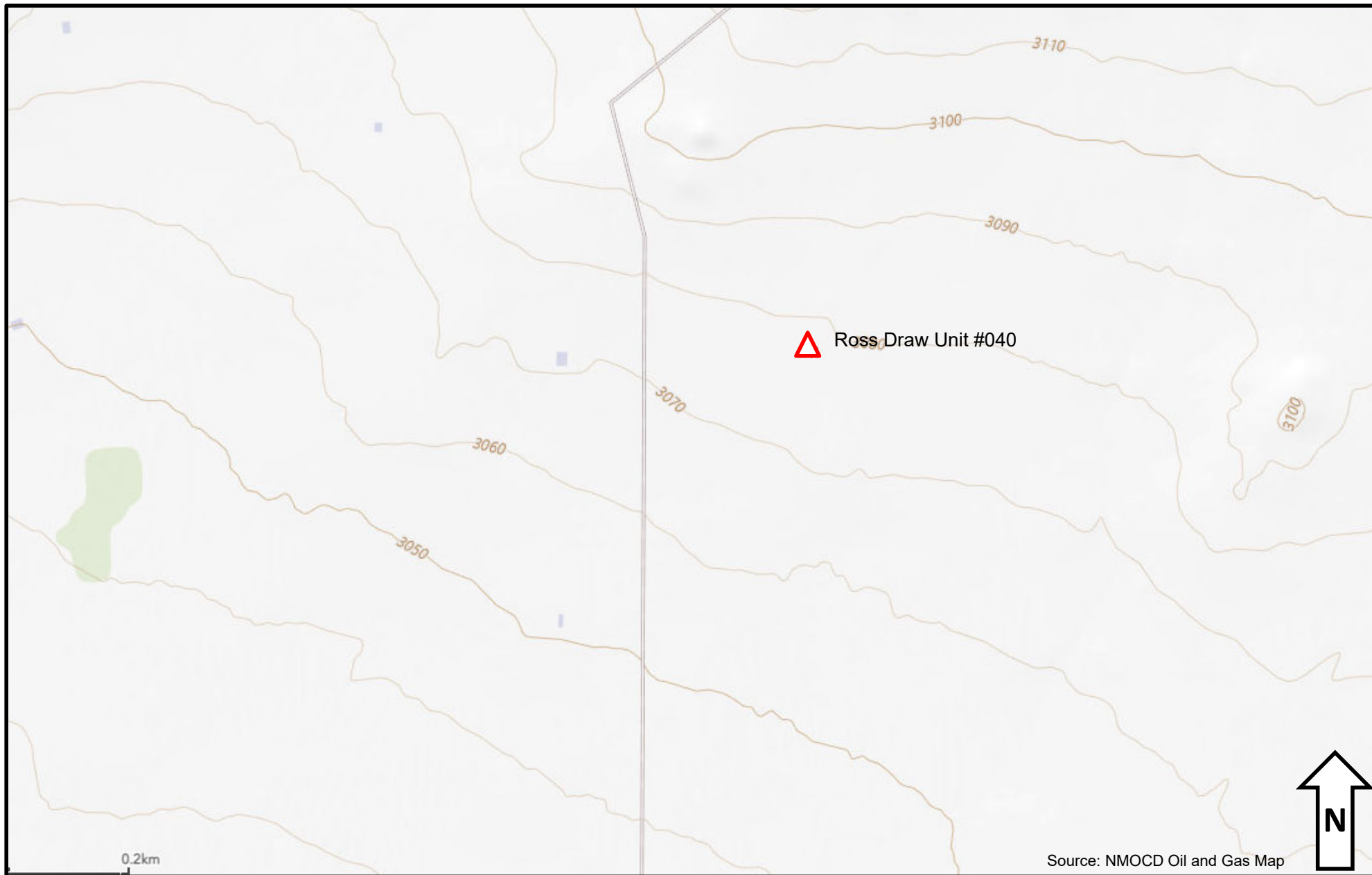


Figure 1 – Site Map

WPX Energy Permian – Ross Draw Unit #040  
 GPS: 32.03078,-103.86375  
 Eddy County, New Mexico



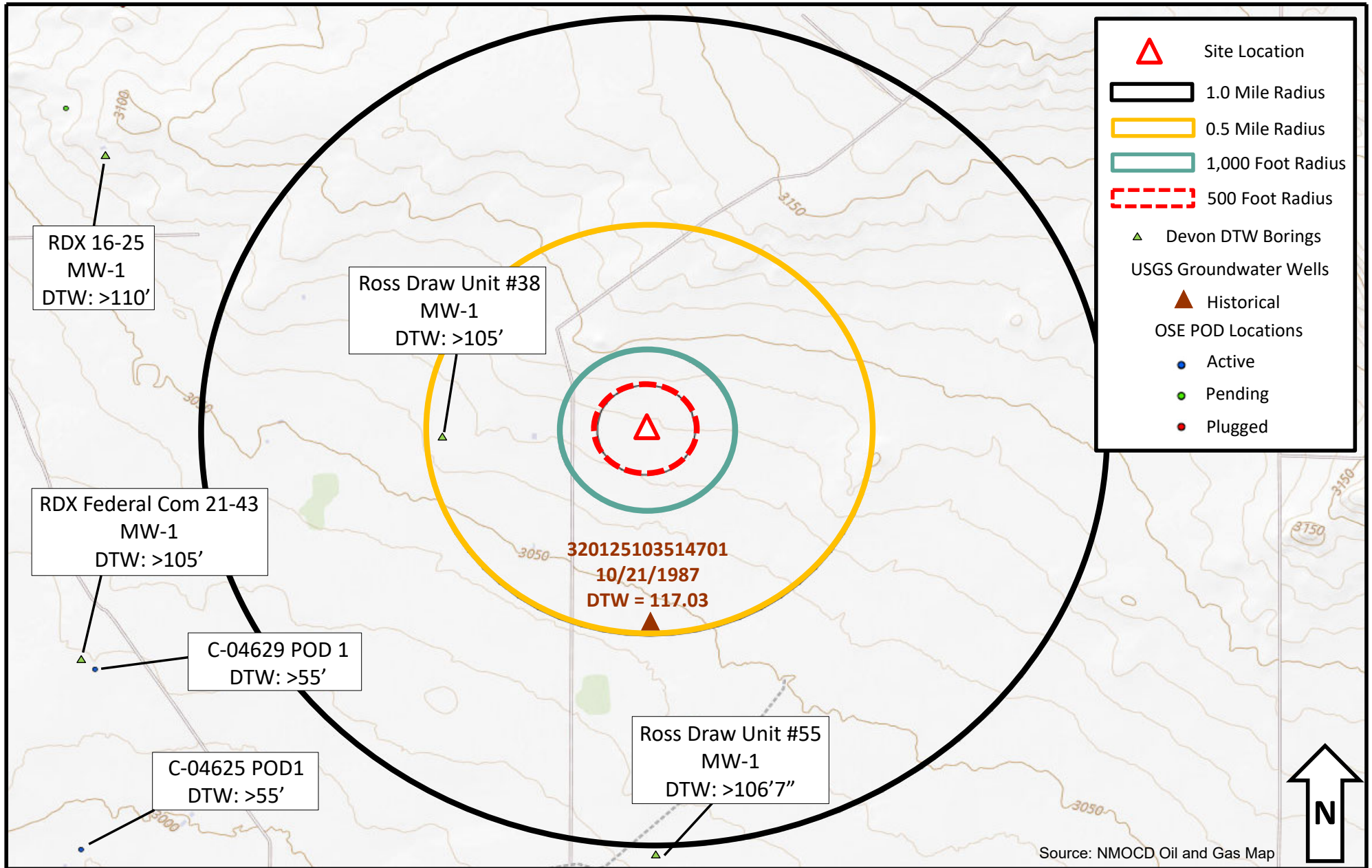
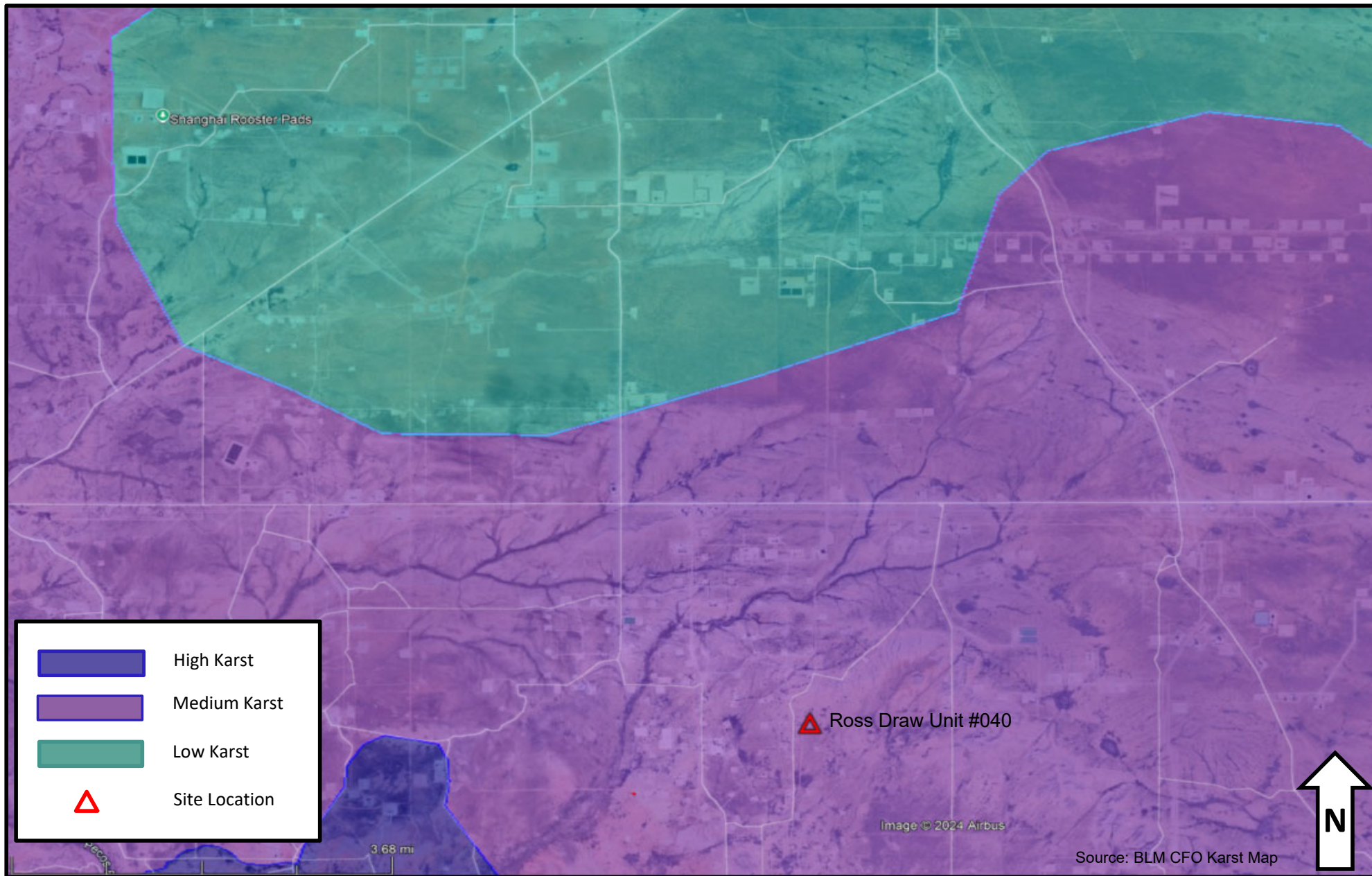


Figure 1A – Ground Water

WPX Energy Permian – Ross Draw Unit #040  
 GPS: 32.03078,-103.86375  
 Eddy County, New Mexico







**Figure 1B – Karst Potential**

WPX Energy Permian – Ross Draw Unit #040  
GPS: 32.03078,-103.86375  
Eddy County, New Mexico



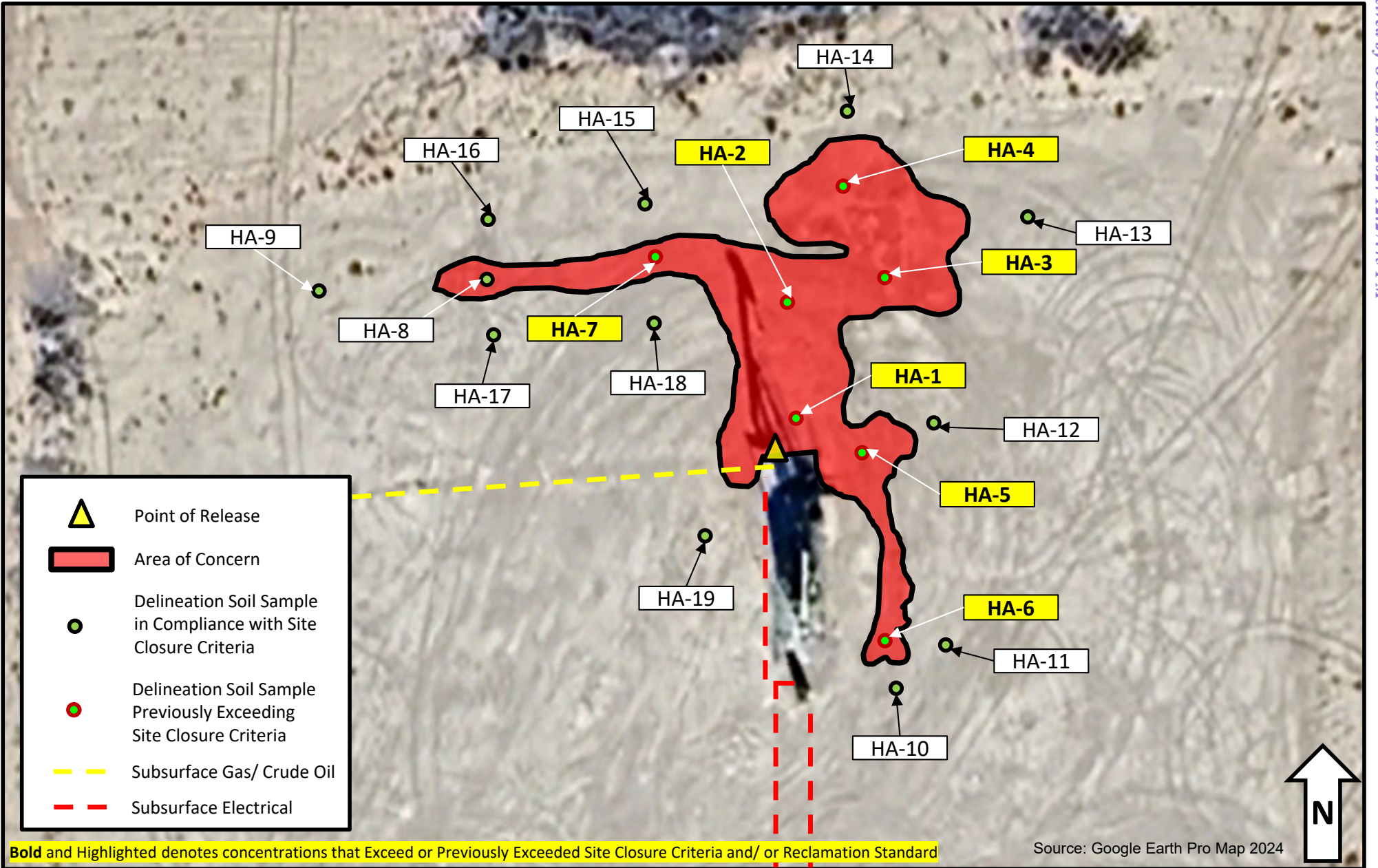
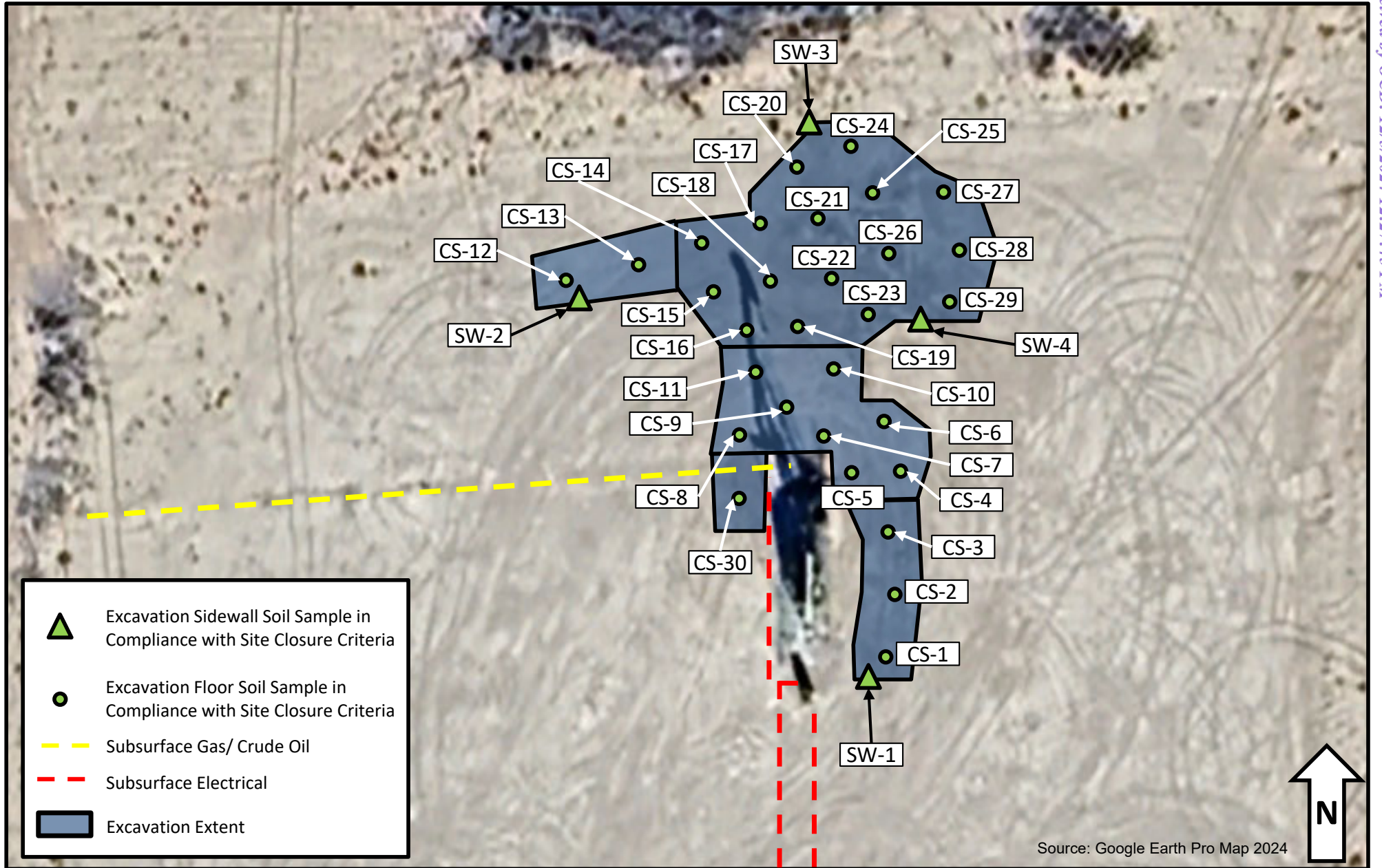


Figure 2 – Delineation Soil Sample Locations

WPX Energy Permian – Ross Draw Unit #040  
GPS: 32.03078,-103.86375  
Eddy County, New Mexico







**Figure 3 – Excavation Soil Sample Locations**

WPX Energy Permian – Ross Draw Unit #040  
GPS: 32.03078,-103.86375  
Eddy County, New Mexico






**Figure 4 – Future Restoration Areas**

WPX Energy Permian – Ross Draw Unit #040  
GPS: 32.03078,-103.86375  
Eddy County, New Mexico





							BORING LOG/MONITORING WELL COMPLETION DIAGRAM								
Boring/Well Number:							MW-1			Location:			Ross Draw Unit #38		
Date:							12/8/2020			Client:			WPX Energy		
Drilling Method:				Sampling Method:				Logged By:				Drilled By:			
Air Rotary				None				J. Linn, PG				Talon LPE			
Gravel Pack Type:				Gravel Pack Depth Interval:				Seal Type:		Seal Depth Interval:		Latitude:			
10/20 Sand				3 Bags				None		None		32.030300			
Casing Type:		Diameter:		Depth Interval:				Boring Total Depth (ft. BGS):				Longitude:			
PVC		2-inch		0-100 feet bgs				105				-103.871338			
Screen Type:		Slot:		Diameter:		Depth Interval:		Well Total Depth (ft. BGS):				Depth to Water (ft. BTOC):		DTW Date:	
PVC		0.010-inch		2-inch		100-105 ft		105				> 105		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	SW	NS	Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand						
5															
10															
15															
20	NM	L	D	N	N	NM	SP	NS	Pale orange/pale pink poorly graded fine sand						
25															
30															
35	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand						
40															
45															
50															
55															
60															
65	NM	L	D	N	N	NM	SP	NS	Brick red brown poorly graded fine sand						
70															
75															
80															
85															
90	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS						
95															
100	NM	L	D	N	N	NM	SP	NS							





Sample Name: HA-1      Date: 9/16/2024  
 Site Name: Ross Draw Unit #040  
 Incident Number: nAPP2425330146  
 Job Number: 2434

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: GM      Method: Hand Auger  
 Hole Diameter: 3.75"      Total Depth: 4 feet

Site Coordinates: 32.03078°, -103.86375°

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	12,744	-	Yes	HA-1	0.5	0	CCHE	(0-2) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, strong H-C odor.  @1' bgs, no stain
Dry	16,960	-	No		1			(2-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	11,680	-	No	HA-1	2	2	SP-SM	
Dry	2,984	-	No	HA-1	4	4		

Total Depth



Sample Name: HA-2	Date: 9/16/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	13,952	-	Yes	HA-2	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, faint H-C odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	12,744	-	No		1		SP-SM	
Dry	9,884	-	No	HA-2	2	2		
Dry	120	-	No	HA-2	4	4		

Total Depth



Sample Name: HA-3	Date: 9/16/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	13,952	-	Yes	HA-3	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	12,744	-	No		1		SP-SM	
Dry	9,884	-	No	HA-3	2	2		
Dry	120	-	No	HA-3	4	4		

Total Depth



Sample Name: HA-4      Date: 9/16/2024  
 Site Name: Ross Draw Unit #040  
 Incident Number: nAPP2425330146  
 Job Number: 2434

**LITHOLOGIC / SOIL SAMPLING LOG**  
 Logged By: GM      Method: Hand Auger  
 Site Coordinates: 32.03078°, -103.86375°      Hole Diameter: 3.75"      Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	13,952	-	Yes	HA-4	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	1,588	-	No		1		SP-SM	
Dry	1,484	-	No	HA-4	2	2		
Dry	436	-	No	HA-4	4	4		

Total Depth



Sample Name: HA-5	Date: 9/16/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: GM	Method: Hand Auger
Hole Diameter: 3.75"	Total Depth: 4 feet

Site Coordinates: 32.03078°, -103.86375°

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	248	-	Yes	HA-5	0.5	0	CCHE	(0-2) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, faint H-C odor.  @1', no odor  (2-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	352	-	No	HA-5	1			
Dry	484	-	No	HA-5	2	2	SP-SM	
Dry	140	-	No	HA-5	4	4		

Total Depth



Sample Name: HA-6      Date: 9/16/2024  
 Site Name: Ross Draw Unit #040  
 Incident Number: nAPP2425330146  
 Job Number: 2434

**LITHOLOGIC / SOIL SAMPLING LOG**  
 Logged By: GM      Method: Hand Auger  
 Site Coordinates: 32.03078°, -103.86375°      Hole Diameter: 3.75"      Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	532	-	Yes	HA-6	0.5	0	CCHE	(0-2) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, faint H-C odor.  @1', no odor
Dry	588	-	No	HA-6	1			(2-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	140	-	No	HA-6	2	2	SP-SM	
Dry	<120	-	No	HA-6	4	4		

Total Depth



Sample Name: HA-7      Date: 9/16/2024  
 Site Name: Ross Draw Unit #040  
 Incident Number: nAPP2425330146  
 Job Number: 2434

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: GM      Method: Hand Auger  
 Hole Diameter: 3.75"      Total Depth: 4 feet

Site Coordinates: 32.03078°, -103.86375°

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	13,952	-	Yes	HA-7	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, brown stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	9,884	-	No		1		SP-SM	
Dry	588	-	No	HA-7	2	2		
Dry	588	-	No	HA-7	4	4		

Total Depth





Sample Name: HA-8      Date: 9/16/2024  
 Site Name: Ross Draw Unit #040  
 Incident Number: nAPP2425330146  
 Job Number: 2434

**LITHOLOGIC / SOIL SAMPLING LOG**  
 Logged By: GM      Method: Hand Auger  
 Site Coordinates: 32.03078°, -103.86375°      Hole Diameter: 3.75"      Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	3,536	-	No	HA-8	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	1,484	-	No		1		SP-SM	
Dry	120	-	No	HA-8	2	2		
Dry	140	-	No	HA-8	4	4		

Total Depth



Sample Name: HA-9	Date: 9/16/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 2 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	188	-	No	HA-9	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-2) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<120	-	No	HA-9	1	1	SP-SM	
Dry	<120	-	No	HA-9	2	2		

Total Depth



Sample Name: HA-10	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG			Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°			Hole Diameter: 3.75"	Total Depth: 2 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	220	-	No	HA-10	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.
						1	SP-SM	(1-2) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<116	-	No	HA-10	2	2		

Total Depth



Sample Name: HA-11	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 2 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	220	-	No	HA-11	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.
						1	SP-SM	(1-2) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	116	-	No	HA-11	2	2		

Total Depth



Sample Name: HA-12	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 2 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	220	-	No	HA-12	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.
						1	SP-SM	(1-2) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	220	-	No	HA-12	2	2		

Total Depth



Sample Name: HA-13	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	396	-	No	HA-13	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	164	-	No		2	2	SP-SM	
Dry	220	-	No	HA-13	4	4		

Total Depth



Sample Name: HA-14	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	-	No	HA-14	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	440	-	No		2	2	SP-SM	
Dry	356	-	No	HA-14	4	4		

Total Depth





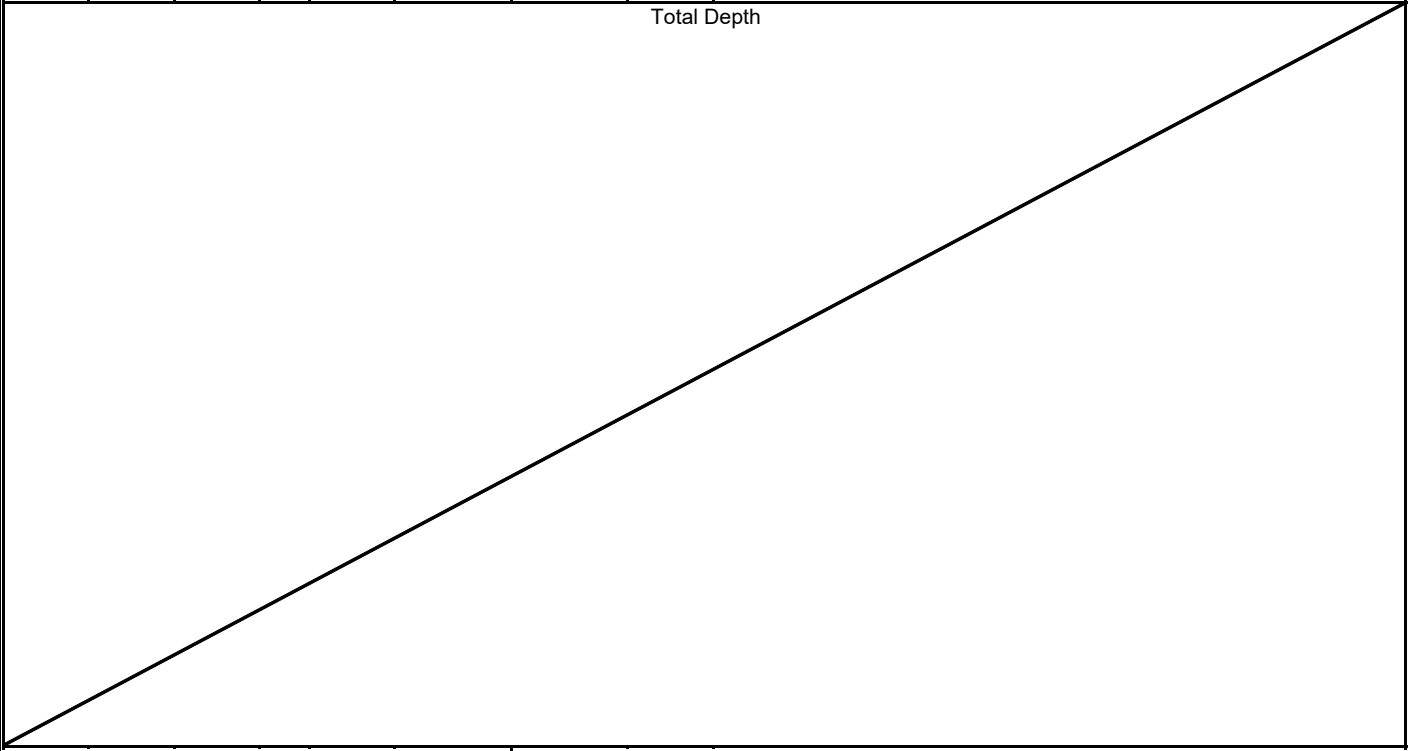
Sample Name: HA-15	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	-	No	HA-15	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<116	-	No		2	2	SP-SM	
Dry	<116	-	No	HA-15	4	4		

Total Depth





Sample Name: HA-16	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 2 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	248	-	No	HA-16	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.
							SP-SM	(1-2) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<116	-	No	HA-16	2	2		

Total Depth



Sample Name: HA-17	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		
Logged By: GM	Method: Hand Auger	
Site Coordinates: 32.03078°, -103.86375°	Hole Diameter: 3.75"	Total Depth: 2 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	-	No	HA-17	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.
							SP-SM	(1-2) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<116	-	No	HA-17	2	2		

Total Depth



Sample Name: HA-18	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	440	-	No	HA-18	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<116	-	No		2	2	SP-SM	
Dry	<116	-	No	HA-18	4	4		

Total Depth



Sample Name: HA-19	Date: 9/17/2024
Site Name: Ross Draw Unit #040	
Incident Number: nAPP2425330146	
Job Number: 2434	

LITHOLOGIC / SOIL SAMPLING LOG		Logged By: GM	Method: Hand Auger
Site Coordinates: 32.03078°, -103.86375°		Hole Diameter: 3.75"	Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	-	No	HA-19	0.5	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse grain, abundant sm-large gravel, no stain, no odor.  (1-4) SAND, dry, tan to light brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<116	-	No		2	2	SP-SM	
Dry	<116	-	No	HA-19	4	4		

Total Depth



Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°



**PHOTO 1:** Southeastern view during initial site assessment. 09/04/2024



**PHOTO 2:** Southeastern view during initial site assessment. 09/04/2024



Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°

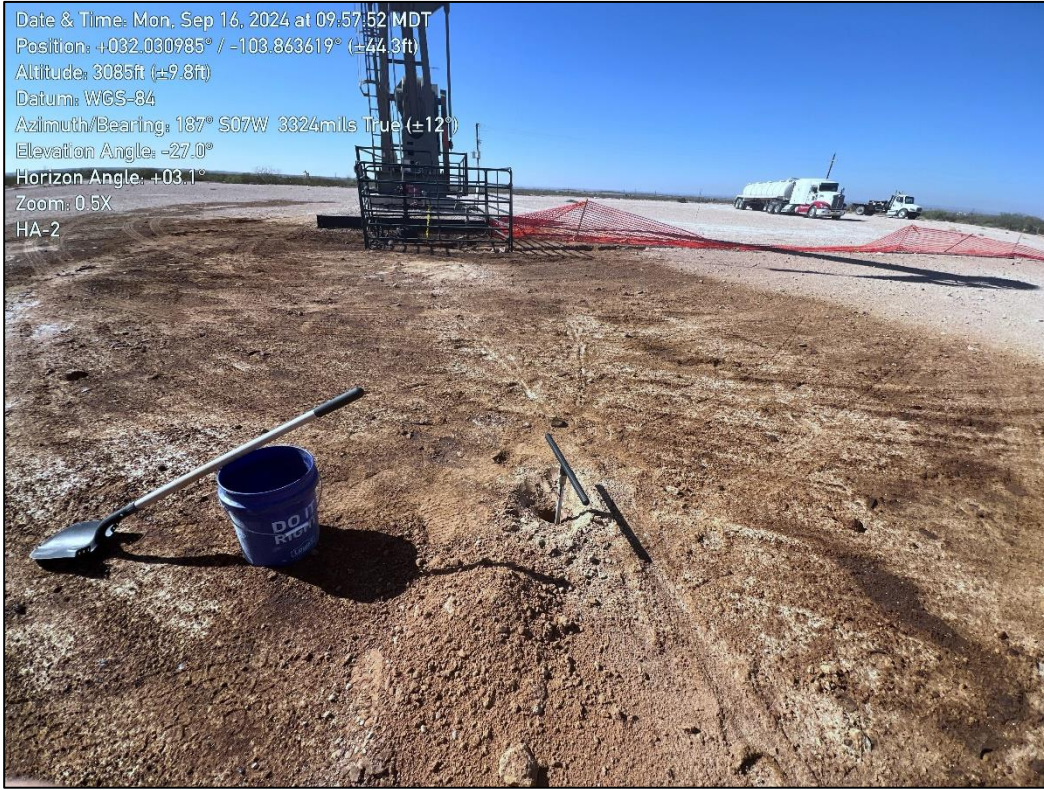


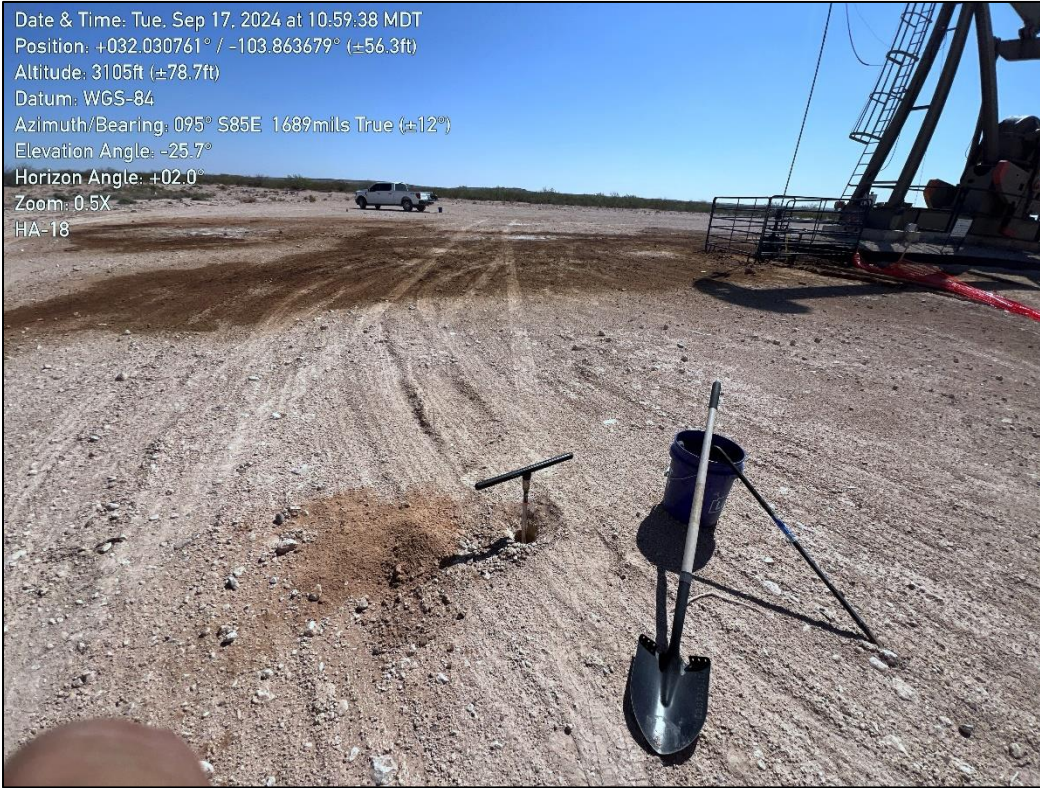
PHOTO 3: Southwestern view during delineation activities. 09/16/2024



PHOTO 4: Northwestern view during delineation activities. 09/16/2024



Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°



**PHOTO 5:** Southeastern view during delineation activities. 09/17/2024



**PHOTO 6:** Southeastern view during excavation activities. 11/04/2024



Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°



**PHOTO 7:** Northwestern view of excavation extent. 11/04/2024



**PHOTO 8:** Southwestern view of excavation extent. 11/04/2024



Ross Draw Unit #040 - Closure Request Report  
Incident Number: nAPP2425330146  
GPS: 32.03078°, -103.86375°



**PHOTO 9:** Northwestern view following restoration activities. 11/19/2024



**PHOTO 10:** Southwestern view following restoration activities. 11/19/2024



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Ross Draw Unit #040  
 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 ORO (mg/kg)	TPH DRO (mg/kg)	DRO+GRO (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	1,000	2,500	20,000
<b>Delineation Soil Samples - nAPP2425330146</b>										
HA-1	09/16/24	0.5	<0.0250	<0.0250	<20.0	1,480	757	757	2,237	25,000
HA-1	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	14,400
HA-1	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	5,710
HA-2	09/16/24	0.5	<0.0250	<0.0250	<20.0	365	711	711	1,076	20,700
HA-2	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	11,700
HA-2	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	138
HA-3	09/16/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	22,900
HA-3	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	10,100
HA-3	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	2,740
HA-4	09/16/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	22,300
HA-4	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	115	115	115	1,790
HA-4	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	593
HA-5	09/16/24	0.5	<0.0250	12.8	118	18,400	5,570	5,688	24,088	269
HA-5	09/16/24	1	<0.0250	0.265	<20.0	304	958	958	1,262	499
HA-5	09/16/24	2	<0.0250	0.125	<20.0	<50.0	<25.0	<45.0	<95.0	631
HA-5	09/16/24	4	<0.0250	0.145	<20.0	<50.0	<25.0	<45.0	<95.0	144
HA-6	09/16/24	0.5	<0.0250	<0.0250	<20.0	2,960	7,660	7,660	10,620	988
HA-6	09/16/24	1	<0.0250	<0.0250	<20.0	145	371	371	516	694
HA-6	09/16/24	2	<0.0250	0.0489	<20.0	<50.0	<25.0	<45.0	<95.0	165
HA-6	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	63.1
HA-7	09/16/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	22,900
HA-7	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	674
HA-7	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	654
HA-8	09/16/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	4,520
HA-8	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	96.2
HA-8	09/16/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	121
HA-9	09/16/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	145



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Ross Draw Unit #040  
 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 ORO (mg/kg)	TPH DRO (mg/kg)	DRO+GRO (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	1,000	2,500	20,000
<b>Delineation Soil Samples - nAPP2425330146</b>										
HA-9	09/16/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	56.5
HA-9	09/16/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	71.1
HA-10	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	330
HA-10	09/17/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	121
HA-11	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	278
HA-11	09/17/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	124
HA-12	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	129
HA-12	09/17/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	103
HA-13	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	181
HA-13	09/17/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	182
HA-14	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	<20.0
HA-14	09/17/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	443
HA-15	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	93.4
HA-15	09/17/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	62.6
HA-16	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	85.7
HA-16	09/17/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	97.4
HA-17	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	156
HA-17	09/17/24	2	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	74.7
HA-18	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	78.3
HA-18	09/17/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	40.9
HA-19	09/17/24	0.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	148
HA-19	09/17/24	4	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	<20.0
<b>Confirmation Soil Samples - nAPP2425330146</b>										
CS-1	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	280
CS-2	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	77.7	77.7	77.7	280
CS-3	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	36.2	36.2	36.2	411
CS-4	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	922
CS-5	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	928



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Ross Draw Unit #040  
 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 ORO (mg/kg)	TPH DRO (mg/kg)	DRO+GRO (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	1,000	2,500	20,000
<b>Confirmation Soil Samples - nAPP2425330146</b>										
CS-6	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	975
CS-7	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	2,080
CS-8	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	1,960
CS-9	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	2,040
CS-10	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	12,600
CS-11	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	321
CS-12	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	170
CS-13	11/04/24	1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	2,260
CS-14	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	264
CS-15	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	13,700
CS-16	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	4,340
CS-17	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	326
CS-18	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	1,920
CS-19	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	10,800
CS-20	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	477
CS-21	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	7,630
CS-22	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	13,000
CS-23	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	13,100
CS-24	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	748
CS-25	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	13,200
CS-26	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	12,000
CS-27	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	1,280
CS-28	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	975
CS-29	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	581
CS-30	11/04/24	1	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	875



**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Ross Draw Unit #040  
 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 ORO (mg/kg)	TPH DRO (mg/kg)	DRO+GRO (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	1,000	2,500	20,000
<b>Confirmation Soil Samples - nAPP2425330146</b>										
SW-1	11/04/24	0-1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	179
SW-2	11/04/24	0-1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	168
SW-3	11/04/24	0-1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	261
SW-4	11/04/24	0-1.5	<0.0250	<0.0250	<20.0	<50.0	<25.0	<45.0	<95.0	254

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

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





---

**(Extension Approval) - WPX Energy - NAPP2425330146 ROSS DRAW UNIT #040**

---

**From** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

**Date** Mon 12/2/2024 1:41 PM

**To** Raley, Jim <Jim.Raley@dvn.com>

**Cc** Gilbert Moreno <gmoreno@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**RE: Incident #NAPP2425330146**

**Jim,**

Your request for a 90-day extension to **March 3rd, 2025** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@emnrd.nm.gov](mailto:robert.hamlet@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Monday, December 2, 2024 2:14 PM

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

**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

**Subject:** FW: [EXTERNAL] Extension Request -- WPX Energy -- nAPP2425330146

---

**From:** Raley, Jim <[Jim.Raley@dvn.com](mailto:Jim.Raley@dvn.com)>

**Sent:** Monday, December 2, 2024 2:12 PM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>

**Cc:** Gilbert Moreno <[gmoreno@earthsys.net](mailto:gmoreno@earthsys.net)>

**Subject:** [EXTERNAL] Extension Request -- WPX Energy -- nAPP2425330146

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

NMOCD District II,



WPX Energy Permian (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the Ross Draw Unit #040 (Site).

A produced water and crude oil release was discovered on September 9<sup>th</sup>, 2024, and was subsequently assigned Incident Number nAPP2425330146. From September 16<sup>th</sup> through November 19<sup>th</sup> 2024, Earth Systems Response & Restoration (ESRR) completed initial release delineation activities followed by oversight of excavation activities via mechanical equipment. Approximately 494 cubic yards of impacted soil was removed from the Site and transported to R360 Red Bluff in Orla, Texas.

WPX requests an extension of the December 3<sup>rd</sup>, 2024, deadline for the release associated with Incident Number nAPP2425330146, to allow additional time for ESRR to finalize the subsequent corrective action closure report.

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



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

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 396940

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 396940
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2425330146
Incident Name	NAPP2425330146 ROSS DRAW UNIT #040 @ 30-015-42297
Incident Type	Produced Water Release
Incident Status	Notification Accepted
Incident Well	[30-015-42297] ROSS DRAW UNIT #040

<b>Location of Release Source</b>	
Site Name	ROSS DRAW UNIT #040
Date Release Discovered	09/04/2024
Surface Owner	Federal

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	5,934
What is the estimated number of samples that will be gathered	34
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno P: 832-541-7719
Please provide any information necessary for navigation to sampling site	From the intersection of State Line Rd & Longhorn rd, head E on State Line Rd 2.6 mi, slight left- continue N 0.6 mi, slight right- continue E 0.28 mi, slight left- continue N 1.0 mi, turn right- continue E to location

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 396940

**CONDITIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 396940
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
jralej	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.	10/29/2024

Report to:  
Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Earth Systems

Project Name:	RDU 40
Work Order:	E409168
Job Number:	01058-0007
Received:	9/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/27/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 9/27/24

Gilbert Moreno  
1910 Resource Ct  
Carlsbad, NM 88220

Project Name: RDU 40  
Workorder: E409168  
Date Received: 9/19/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2024 8:00:00AM, under the Project Name: RDU 40.

The analytical test results summarized in this report with the Project Name: RDU 40 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
HA-1 - 0.5'	6
HA-1 - 2'	7
HA-1 - 4'	8
HA-2 - 0.5'	9
HA-2 - 2'	10
HA-2 - 4'	11
HA-3 - 0.5'	12
HA-3 - 2'	13
HA-3 - 4'	14
HA-4 - 0.5'	15
HA-4 - 2'	16
HA-4 - 4'	17
HA-5 - 0.5'	18
HA-5 - 1'	19
HA-5 - 2'	20
HA-5 - 4'	21
HA-6 - 0.5'	22
HA-6 - 1'	23
HA-6 - 2'	24
HA-6 - 4'	25

## Table of Contents (continued)

HA-7 - 0.5'	26
HA-7 - 2'	27
HA-7 - 4'	28
HA-8 - 0.5'	29
HA-8 - 2'	30
HA-8 - 4'	31
HA-9 - 0.5'	32
HA-9 - 1'	33
HA-9 - 2'	34
QC Summary Data	35
QC - Volatile Organics by EPA 8021B	35
QC - Nonhalogenated Organics by EPA 8015D - GRO	37
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	39
QC - Anions by EPA 300.0/9056A	41
Definitions and Notes	43
Chain of Custody etc.	44

### Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 09/27/24 13:28
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA-1 - 0.5'	E409168-01A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-1 - 2'	E409168-02A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-1 - 4'	E409168-03A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-2 - 0.5'	E409168-04A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-2 - 2'	E409168-05A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-2 - 4'	E409168-06A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-3 - 0.5'	E409168-07A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-3 - 2'	E409168-08A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-3 - 4'	E409168-09A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-4 - 0.5'	E409168-10A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-4 - 2'	E409168-11A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-4 - 4'	E409168-12A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-5 - 0.5'	E409168-13A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-5 - 1'	E409168-14A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-5 - 2'	E409168-15A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-5 - 4'	E409168-16A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-6 - 0.5'	E409168-17A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-6 - 1'	E409168-18A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-6 - 2'	E409168-19A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-6 - 4'	E409168-20A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-7 - 0.5'	E409168-21A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-7 - 2'	E409168-22A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-7 - 4'	E409168-23A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-8 - 0.5'	E409168-24A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-8 - 2'	E409168-25A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-8 - 4'	E409168-26A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-9 - 0.5'	E409168-27A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-9 - 1'	E409168-28A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.
HA-9 - 2'	E409168-29A	Soil	09/16/24	09/19/24	Glass Jar, 2 oz.



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-1 - 0.5'**  
**E409168-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2438119	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2438119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2438130	
Diesel Range Organics (C10-C28)	757	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	1480	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
		155 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2438145	
Chloride	25000	400	20	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-1 - 2'**

**E409168-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		127 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	14400	200	10	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-1 - 4'**

**E409168-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		147 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	5710	200	10	09/20/24	09/21/24	

### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-2 - 0.5'**

**E409168-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	711	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	365	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		124 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	20700	200	10	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-2 - 2'**

**E409168-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	11700	200	10	09/20/24	09/21/24	

### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-2 - 4'**

**E409168-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		143 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	138	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-3 - 0.5'**

**E409168-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	22900	1000	50	09/20/24	09/21/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-3 - 2'**

**E409168-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		137 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	10100	200	10	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-3 - 4'**

**E409168-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		131 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	2740	40.0	2	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-4 - 0.5'**

**E409168-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		132 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	22300	1000	50	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-4 - 2'**

**E409168-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	115	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		128 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	1790	40.0	2	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-4 - 4'**

**E409168-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		127 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	593	100	5	09/20/24	09/21/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-5 - 0.5'**

**E409168-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	<b>0.976</b>	0.0250	1	09/19/24	09/26/24	
Toluene	<b>0.106</b>	0.0250	1	09/19/24	09/26/24	
o-Xylene	<b>2.16</b>	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	<b>3.71</b>	0.0500	1	09/19/24	09/26/24	
Total Xylenes	<b>5.87</b>	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	<b>118</b>	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	<b>18400</b>	500	20	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	<b>5570</b>	1000	20	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>						
		211 %	50-200	09/19/24	09/24/24	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	<b>269</b>	100	5	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-5 - 1'**

**E409168-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	<b>0.0685</b>	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	<b>0.0640</b>	0.0500	1	09/19/24	09/27/24	
Total Xylenes	<b>0.133</b>	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.3 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	<b>958</b>	50.0	2	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	<b>304</b>	100	2	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>						
		123 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	<b>499</b>	100	5	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-5 - 2'**

**E409168-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	<b>0.0585</b>	0.0250	1	09/19/24	09/26/24	
Toluene	<b>0.0660</b>	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		137 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	<b>631</b>	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-5 - 4'**

**E409168-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2438119	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	<b>0.0723</b>	0.0500	1	09/19/24	09/26/24	
Total Xylenes	<b>0.0723</b>	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.0 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2438119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2438130	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		131 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2438145	
Chloride	<b>144</b>	100	5	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-6 - 0.5'**

**E409168-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.7 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	7660	250	10	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	2960	500	10	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		129 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	988	100	5	09/20/24	09/21/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-6 - 1'**  
**E409168-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	371	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	145	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	694	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-6 - 2'**

**E409168-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2438119	
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	<b>0.0489</b>	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.0 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2438119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2438130	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2438145	
Chloride	<b>165</b>	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-6 - 4'**

**E409168-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2438119
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438130
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		135 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438145
Chloride	63.1	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-7 - 0.5'**

**E409168-21**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		91.7 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	22900	1000	50	09/19/24	09/19/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-7 - 2'**

**E409168-22**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438116	
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2438116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2438127	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2438104	
Chloride	674	20.0	1	09/19/24	09/19/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-7 - 4'**

**E409168-23**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		94.2 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	654	200	10	09/19/24	09/20/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-8 - 0.5'**

**E409168-24**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	4520	200	10	09/19/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-8 - 2'**

**E409168-25**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		97.3 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	96.2	20.0	1	09/19/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-8 - 4'**

**E409168-26**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		98.1 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	121	20.0	1	09/19/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-9 - 0.5'**

**E409168-27**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		88.8 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	145	40.0	2	09/19/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-9 - 1'**

**E409168-28**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/25/24	
Toluene	ND	0.0250	1	09/19/24	09/25/24	
o-Xylene	ND	0.0250	1	09/19/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	09/19/24	09/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		93.8 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	56.5	20.0	1	09/19/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

**HA-9 - 2'**

**E409168-29**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: CG		Batch: 2438116
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438127
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		99.0 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438104
Chloride	71.1	20.0	1	09/19/24	09/20/24	





### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

#### Volatile Organics by EPA 8021B

Analyst: CG

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

#### Blank (2438116-BLK1)

Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

#### LCS (2438116-BS1)

Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	4.87	0.0250	5.00		97.4	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.2	70-130			
Total Xylenes	14.8	0.0250	15.0		98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

#### LCS Dup (2438116-BSD1)

Prepared: 09/19/24 Analyzed: 09/25/24

Benzene	5.22	0.0250	5.00		104	70-130	2.84	20	
Ethylbenzene	5.03	0.0250	5.00		101	70-130	3.23	20	
Toluene	5.13	0.0250	5.00		103	70-130	3.02	20	
o-Xylene	5.03	0.0250	5.00		101	70-130	3.19	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	3.15	20	
Total Xylenes	15.3	0.0250	15.0		102	70-130	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

#### Volatile Organics by EPA 8021B

Analyst: BA

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

#### Blank (2438119-BLK1)

Prepared: 09/19/24 Analyzed: 09/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

#### LCS (2438119-BS1)

Prepared: 09/19/24 Analyzed: 09/26/24

Benzene	5.43	0.0250	5.00		109	70-130			
Ethylbenzene	5.22	0.0250	5.00		104	70-130			
Toluene	5.34	0.0250	5.00		107	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.1	70-130			

#### LCS Dup (2438119-BSD1)

Prepared: 09/19/24 Analyzed: 09/26/24

Benzene	5.32	0.0250	5.00		106	70-130	2.10	20	
Ethylbenzene	5.13	0.0250	5.00		103	70-130	1.74	20	
Toluene	5.23	0.0250	5.00		105	70-130	2.01	20	
o-Xylene	5.12	0.0250	5.00		102	70-130	1.82	20	
p,m-Xylene	10.4	0.0500	10.0		104	70-130	1.74	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	1.76	20	
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 1:28:05PM

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

Analyst: CG

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

**Blank (2438116-BLK1)**

Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

**LCS (2438116-BS2)**

Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

**LCS Dup (2438116-BSD2)**

Prepared: 09/19/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130	0.834	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 1:28:05PM

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

Analyst: BA

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

**Blank (2438119-BLK1)**

Prepared: 09/19/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

**LCS (2438119-BS2)**

Prepared: 09/19/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

**LCS Dup (2438119-BSD2)**

Prepared: 09/19/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130	3.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 1:28:05PM

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

**Blank (2438127-BLK1)**

Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.3	50-200			

**LCS (2438127-BS1)**

Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	216	25.0	250		86.3	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

**LCS Dup (2438127-BSD1)**

Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	224	25.0	250		89.6	38-132	3.72	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 1:28:05PM

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

**Blank (2438130-BLK1)**

Prepared: 09/19/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	76.4		50.0		153	50-200			

**LCS (2438130-BS1)**

Prepared: 09/19/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	73.8		50.0		148	50-200			

**LCS Dup (2438130-BSD1)**

Prepared: 09/19/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132	10.8	20	
Surrogate: n-Nonane	76.3		50.0		153	50-200			





### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

#### Anions by EPA 300.0/9056A

Analyst: DT

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

**Blank (2438104-BLK1)**

Prepared: 09/19/24 Analyzed: 09/19/24

Chloride	ND	20.0							
----------	----	------	--	--	--	--	--	--	--

**LCS (2438104-BS1)**

Prepared: 09/19/24 Analyzed: 09/19/24

Chloride	253	20.0	250		101	90-110			
----------	-----	------	-----	--	-----	--------	--	--	--

**Matrix Spike (2438104-MS1)**

Source: E409163-05

Prepared: 09/19/24 Analyzed: 09/19/24

Chloride	269	100	250	ND	108	80-120			
----------	-----	-----	-----	----	-----	--------	--	--	--

**Matrix Spike Dup (2438104-MSD1)**

Source: E409163-05

Prepared: 09/19/24 Analyzed: 09/19/24

Chloride	267	100	250	ND	107	80-120	0.674	20	
----------	-----	-----	-----	----	-----	--------	-------	----	--



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 1:28:05PM
---	---	---

#### Anions by EPA 300.0/9056A

Analyst: DT

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

**Blank (2438145-BLK1)**

Prepared: 09/20/24 Analyzed: 09/21/24

Chloride ND 20.0

**LCS (2438145-BS1)**

Prepared: 09/20/24 Analyzed: 09/21/24

Chloride 252 20.0 250 101 90-110

**Matrix Spike (2438145-MS1)**

Source: E409168-08

Prepared: 09/20/24 Analyzed: 09/21/24

Chloride 12100 200 250 10100 786 80-120 M4

**Matrix Spike Dup (2438145-MSD1)**

Source: E409168-08

Prepared: 09/20/24 Analyzed: 09/21/24

Chloride 11500 200 250 10100 546 80-120 5.08 20 M4

QC Summary Report Comment:

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



### Definitions and Notes

Earth Systems	Project Name:	RDU 40	
1910 Resource Ct	Project Number:	01058-0007	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/27/24 13:28

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

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Earth Systems R & R				Company: WPX Energy Permian				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: RDU 40				Address: 5315 Buena Vista Dr				E 409168		D1057-0007					X	X			
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com															
Phone: 832-541-7719				WO: 21402114															
Email: gmoreno@earthsys.net																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCED.1005 - TX	RCRA 8 Metals	Carbon/Anion Pkg	SDWA	CWA	RCRA	
9:00	9/16/2024	S	1	HA-1		1		0.5				X							
9:10	9/16/2024	S	1	HA-1		2		2				X							
9:20	9/16/2024	S	1	HA-1		3		4				X							
9:30	9/16/2024	S	1	HA-2		5		0.5				X							
9:40	9/16/2024	S	1	HA-2		8		2				X							
9:50	9/16/2024	S	1	HA-2		6		4				X							
10:00	9/16/2024	S	1	HA-3		7		0.5				X							
10:10	9/16/2024	S	1	HA-3		8		2				X							
10:20	9/16/2024	S	1	HA-3		9		4				X							
10:30	9/16/2024	S	1	HA-4		10		0.5				X							
<b>Additional Instructions:</b>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: <u>GM</u>																			
Relinquished by: (Signature) <i>GM</i>		Date 9.18.24		Time 08:00		Received by: (Signature) <i>Michelle Gonzales</i>		Date 9.18.24		Time 0800		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on Ice: <input checked="" type="radio"/> Y / <input type="radio"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C <u>4</u>							
Relinquished by: (Signature) <i>Michelle Gonzales</i>		Date 9.18.24		Time 1600		Received by: (Signature) <i>J.M.</i>		Date 9.18.24		Time 1730									
Relinquished by: (Signature) <i>J.M.</i>		Date 9.18.24		Time 2330		Received by: (Signature) <i>Chris Man</i>		Date 9.19.24		Time 8:00									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Chain of Custody

Released to Imaging: 12/30/2024 8:36:29 AM

Received by OCD: 12/5/2024 12:27:45 PM

Client Information				Invoice Information			Lab Use Only				TAT				State				
Client: Earth Systems R & R				Company: WPX Energy Permian			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: RDU 40				Address: 5315 Buena Vista Dr			E4091108		01058-0057					X	X				
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com															
Phone: 832-541-7719				WO: 21402114															
Email: gmoreno@earthsys.net																			
Sample Information										Analysis and Method				EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Carbon/Anion Pkg	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Remarks			
10:40	9/16/2024	S	1	HA-4		11		2				X				Incident #:			
10:50	9/16/2024	S	1	HA-4		12		4				X				nAPP2425330146			
11:00	9/16/2024	S	1	HA-5		13		0.5				X							
11:05	9/16/2024	S	1	HA-5		14		1				X							
11:10	9/16/2024	S	1	HA-5		15		2				X							
11:20	9/16/2024	S	1	HA-5		16		4				X							
11:30	9/16/2024	S	1	HA-6		17		0.5				X							
11:40	9/16/2024	S	1	HA-6		18		1				X							
11:50	9/16/2024	S	1	HA-6		19		2				X							
12:00	9/16/2024	S	1	HA-6		20		4				X							
<b>Additional Instructions:</b>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: GM																			
Relinquished by (Signature)		Date		Time		Received by (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4							
C. Jones		9-18-24		08:00		Michelle Gonzales		9-18-24		0800									
Michelle Gonzales		9-18-24		1600		J. H.		9-18-24		1730									
J.H.		9-18-24		2330		Cathy Moore		9-19-24		8:00									
Relinquished by (Signature)		Date		Time		Received by (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Page 88 of 194

Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Earth Systems R & R				Company: WPX Energy Permian				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: RDU 40				Address: 5315 Buena Vista Dr				E409168		11058-0007					X	X					
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																	
Address: 1910 Resource Ct				Phone:																	
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com																	
Phone: 832-541-7719				WO: 21402114																	
Email: gmoreno@earthsys.net																					
Sample Information																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1095-TX	RCRA 8 Metals	Carbon/Anion Pig	EPA Program				
																		SDWA	CWA	RCRA	
																		Compliance	Y	or	N
																		PWSID #			
																		Remarks			
12:10	9/16/2024	S	1	HA-7			21		0.5				X					Incident #:			
12:20	9/16/2024	S	1	HA-7			22		2				X					nAPP2425330146			
12:30	9/16/2024	S	1	HA-7			23		4				X								
12:40	9/16/2024	S	1	HA-8			24		0.5				X								
12:50	9/16/2024	S	1	HA-8			25		2				X								
13:00	9/16/2024	S	1	HA-8			26		4				X								
13:10	9/16/2024	S	1	HA-9			27		0.5				X								
13:20	9/16/2024	S	1	HA-9			28		1				X								
13:30	9/16/2024	S	1	HA-9			29		2				X								
<b>Additional Instructions:</b>																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: GM																					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on Ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					





### Envirotech Analytical Laboratory

Printed: 9/19/2024 9:20:51AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems	Date Received: 09/19/24 08:00	Work Order ID: E409168
Phone: 832-541-7719	Date Logged In: 09/18/24 16:05	Logged In By: Noe Soto
Email: gmoreno@earthsys.net	Due Date: 09/25/24 17:00 (4 day TAT)	

#### Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

#### Comments/Resolution

#### Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

#### Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

#### Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

#### Field Label

- 20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

#### Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

#### Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

#### Subcontract Laboratory

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

#### Client Instruction

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

Date



envirotech Inc.

Report to:  
Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Earth Systems

Project Name:	RDU 40
Work Order:	E409167
Job Number:	01058-0007
Received:	9/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/27/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/27/24

Gilbert Moreno  
1910 Resource Ct  
Carlsbad, NM 88220



Project Name: RDU 40  
Workorder: E409167  
Date Received: 9/19/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2024 8:00:00AM, under the Project Name: RDU 40.

The analytical test results summarized in this report with the Project Name: RDU 40 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
HA-10 - 0.25'	6
HA-10 - 2'	7
HA-11 - 0.5'	8
HA-11 - 2'	9
HA-12 - 0.5'	10
HA-12 - 2'	11
HA-13 - 0.5'	12
HA-13 - 4'	13
HA-14 - 0.5'	14
HA-14 - 4'	15
HA-15 - 0.5'	16
HA-15 - 4'	17
HA-16 - 0.5'	18
HA-16 - 2'	19
HA-17 - 0.5'	20
HA-17 - 2'	21
HA-18 - 0.5'	22
HA-18 - 4'	23
HA-19 - 0.5'	24
HA-19 - 4'	25

## Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

### Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 09/27/24 11:34
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA-10 - 0.25'	E409167-01A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-10 - 2'	E409167-02A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-11 - 0.5'	E409167-03A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-11 - 2'	E409167-04A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-12 - 0.5'	E409167-05A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-12 - 2'	E409167-06A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-13 - 0.5'	E409167-07A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-13 - 4'	E409167-08A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-14 - 0.5'	E409167-09A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-14 - 4'	E409167-10A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-15 - 0.5'	E409167-11A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-15 - 4'	E409167-12A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-16 - 0.5'	E409167-13A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-16 - 2'	E409167-14A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-17 - 0.5'	E409167-15A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-17 - 2'	E409167-16A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-18 - 0.5'	E409167-17A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-18 - 4'	E409167-18A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-19 - 0.5'	E409167-19A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.
HA-19 - 4'	E409167-20A	Soil	09/17/24	09/19/24	Glass Jar, 2 oz.



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-10 - 0.25'**

**E409167-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		98.8 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		98.8 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2438144
Chloride	330	100	5	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-10 - 2'**

**E409167-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	121	20.0	1	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-11 - 0.5'**

**E409167-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		96.3 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		96.3 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	278	40.0	2	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-11 - 2'**

**E409167-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	124	20.0	1	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-12 - 0.5'**

**E409167-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	129	20.0	1	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-12 - 2'**

**E409167-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	ND	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	103	20.0	1	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-13 - 0.5'**

**E409167-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	ND	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		98.9 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		98.9 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	181	100	5	09/20/24	09/20/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-13 - 4'**  
**E409167-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	ND	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/24/24	
<i>Surrogate: n-Nonane</i>		126 %	50-200	09/19/24	09/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	182	20.0	1	09/20/24	09/20/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-14 - 0.5'**

**E409167-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	ND	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	ND	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-14 - 4'**

**E409167-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	ND	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		99.3 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.1 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		99.3 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.1 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2438144
Chloride	443	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-15 - 0.5'**

**E409167-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.6 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		98.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.6 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		98.5 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		133 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	93.4	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-15 - 4'**

**E409167-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		98.4 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		98.4 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	62.6	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-16 - 0.5'**

**E409167-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	85.7	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-16 - 2'**

**E409167-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		95.9 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	97.4	20.0	1	09/20/24	09/21/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-17 - 0.5'**

**E409167-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		99.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		99.1 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	156	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-17 - 2'**

**E409167-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		99.3 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	74.7	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-18 - 0.5'**

**E409167-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		98.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		98.9 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	78.3	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-18 - 4'**

**E409167-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	40.9	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-19 - 0.5'**

**E409167-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/26/24	
Toluene	ND	0.0250	1	09/19/24	09/26/24	
o-Xylene	ND	0.0250	1	09/19/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		98.8 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		98.4 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		98.8 %	70-130	09/19/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	09/19/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		98.4 %	70-130	09/19/24	09/26/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	148	20.0	1	09/20/24	09/21/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

**HA-19 - 4'**

**E409167-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Benzene	ND	0.0250	1	09/19/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/19/24	09/27/24	
Toluene	ND	0.0250	1	09/19/24	09/27/24	
o-Xylene	ND	0.0250	1	09/19/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/19/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.9 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		98.6 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438118
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/24	09/27/24	
<i>Surrogate: Bromofluorobenzene</i>		97.9 %	70-130	09/19/24	09/27/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	09/19/24	09/27/24	
<i>Surrogate: Toluene-d8</i>		98.6 %	70-130	09/19/24	09/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438129
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/24	09/25/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/19/24	09/25/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438144
Chloride	ND	20.0	1	09/20/24	09/21/24	



### QC Summary Data

Earth Systems	Project Name: RDU 40	<b>Reported:</b> 9/27/2024 11:34:51AM
1910 Resource Ct	Project Number: 01058-0007	
Carlsbad NM, 88220	Project Manager: Gilbert Moreno	

#### Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

**Blank (2438118-BLK1)**

Prepared: 09/19/24 Analyzed: 09/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
<i>Surrogate: Bromofluorobenzene</i>	0.499		0.500		99.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.501		0.500		100	70-130			
<i>Surrogate: Toluene-d8</i>	0.511		0.500		102	70-130			

**LCS (2438118-BS1)**

Prepared: 09/19/24 Analyzed: 09/26/24

Benzene	2.37	0.0250	2.50		94.9	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.5	70-130			
Toluene	2.37	0.0250	2.50		94.9	70-130			
o-Xylene	2.40	0.0250	2.50		96.1	70-130			
p,m-Xylene	4.81	0.0500	5.00		96.2	70-130			
Total Xylenes	7.21	0.0250	7.50		96.2	70-130			
<i>Surrogate: Bromofluorobenzene</i>	0.489		0.500		97.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.513		0.500		103	70-130			
<i>Surrogate: Toluene-d8</i>	0.500		0.500		100	70-130			

**LCS Dup (2438118-BSD1)**

Prepared: 09/19/24 Analyzed: 09/26/24

Benzene	2.27	0.0250	2.50		90.9	70-130	4.33	23	
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130	3.16	27	
Toluene	2.31	0.0250	2.50		92.5	70-130	2.58	24	
o-Xylene	2.32	0.0250	2.50		92.7	70-130	3.62	27	
p,m-Xylene	4.65	0.0500	5.00		93.1	70-130	3.34	27	
Total Xylenes	6.97	0.0250	7.50		92.9	70-130	3.43	27	
<i>Surrogate: Bromofluorobenzene</i>	0.477		0.500		95.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.508		0.500		102	70-130			
<i>Surrogate: Toluene-d8</i>	0.511		0.500		102	70-130			





### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 11:34:51AM

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

Analyst: IY

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

**Blank (2438118-BLK1)**

Prepared: 09/19/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

**LCS (2438118-BS2)**

Prepared: 09/19/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

**LCS Dup (2438118-BSD2)**

Prepared: 09/19/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130	4.85	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 11:34:51AM

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

**Blank (2438129-BLK1)**

Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

**LCS (2438129-BS1)**

Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	227	25.0	250		90.7	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

**LCS Dup (2438129-BSD1)**

Prepared: 09/19/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132	19.2	20	
Surrogate: n-Nonane	66.5		50.0		133	50-200			



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 9/27/2024 11:34:51AM
---	---	--

#### Anions by EPA 300.0/9056A

Analyst: DT

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

**Blank (2438144-BLK1)**

Prepared: 09/20/24 Analyzed: 09/20/24

Chloride ND 20.0

**LCS (2438144-BS1)**

Prepared: 09/20/24 Analyzed: 09/20/24

Chloride 249 20.0 250 99.7 90-110

**Matrix Spike (2438144-MS1)**

Source: E409167-07

Prepared: 09/20/24 Analyzed: 09/20/24

Chloride 480 100 250 181 119 80-120

**Matrix Spike Dup (2438144-MSD1)**

Source: E409167-07

Prepared: 09/20/24 Analyzed: 09/20/24

Chloride 455 100 250 181 110 80-120 5.17 20

QC Summary Report Comment:

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



### Definitions and Notes

Earth Systems	Project Name:	RDU 40	
1910 Resource Ct	Project Number:	01058-0007	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/27/24 11:34

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: Earth Systems R & R				Company: WPX Energy Permian				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: RDU 40				Address: 5315 Buena Vista Dr				E409167		01058-0057					X	X				
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																
Address: 1910 Resource Ct				Phone:																
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com																
Phone: 832-541-7719				WO: 21402114																
Email: gmoreno@earthsys.net																				
Sample Information										Analysis and Method						EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCOQ-1000-TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
9:00	9/17/2024	S	1	HA-10			1		0.5				X							
9:10	9/17/2024	S	1	HA-10			2		2				X							
9:20	9/17/2024	S	1	HA-11			3		0.5				X							
9:30	9/17/2024	S	1	HA-11			4		2				X							
9:40	9/17/2024	S	1	HA-12			5		0.5				X							
9:50	9/17/2024	S	1	HA-12			6		2				X							
10:00	9/17/2024	S	1	HA-13			7		0.5				X							
10:10	9/17/2024	S	1	HA-13			8		4				X							
10:20	9/17/2024	S	1	HA-14			9		0.5				X							
10:30	9/17/2024	S	2	HA-14			10		4				X							
<b>Additional Instructions:</b>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: GM																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Received on ice: <u>Y</u> / <u>N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Released to Imaging: 12/30/2024 8:36:29 AM

Received by OCD: 12/5/2024 12:27:45 PM

Page 121 of 194



Client Information				Invoice Information			Lab Use Only				TAT				State					
Client: Earth Systems R & R				Company: WPX Energy Permian			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: RDU 40				Address: 5315 Buena Vista Dr			E409167		010580057					X	X					
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																
Address: 1910 Resource Ct				Phone:																
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com																
Phone: 832-541-7719				WO: 21402114																
Email: gmoreno@earthsys.net																				
Sample Information															EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
10:40	9/17/2024	S	1	HA-15			11		0.5				X							
10:50	9/17/2024	S	1	HA-15			12		4				X							
11:00	9/17/2024	S	1	HA-16			13		0.5				X							
11:10	9/17/2024	S	1	HA-16			14		2				X							
11:20	9/17/2024	S	1	HA-17			15		0.5				X							
11:30	9/17/2024	S	1	HA-17			16		2				X							
11:40	9/17/2024	S	1	HA-18			17		0.5				X							
11:50	9/17/2024	S	1	HA-18			18		4				X							
12:00	9/17/2024	S	1	HA-19			19		0.5				X							
12:10	9/17/2024	S	2	HA-19			20		4				X							
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: GM																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other															Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Envirotech Analytical Laboratory

Printed: 9/19/2024 9:17:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems Date Received: 09/19/24 08:00 Work Order ID: E409167
Phone: 832-541-7719 Date Logged In: 09/18/24 15:17 Logged In By: Noe Soto
Email: gmoreno@earthsys.net Due Date: 09/25/24 17:00 (4 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

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

Date



envirotech Inc.



Report to:  
Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Earth Systems

Project Name:	RDU 40
Work Order:	E411048
Job Number:	01058-0007
Received:	11/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/11/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 11/11/24

Gilbert Moreno  
1910 Resource Ct  
Carlsbad, NM 88220

Project Name: RDU 40  
Workorder: E411048  
Date Received: 11/6/2024 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: RDU 40.

The analytical test results summarized in this report with the Project Name: RDU 40 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CS-1 1	6
CS-2 1	7
CS-3 1	8
CS-4 1.5	9
CS-5 1.5	10
CS-6 1.5	11
CS-7 1.5	12
CS-8 1.5	13
CS-9 1.5	14
CS-10 1.5	15
CS-11 1.5	16
CS-12 1.5	17
CS-13 1.5	18
CS-14 1	19
CS-15 1	20
CS-16 1	21
CS-17 1	22
CS-18 1	23
CS-19 1	24
CS-20 1	25

## Table of Contents (continued)

CS-21 1	26
CS-22 1	27
CS-23 1	28
CS-24 1	29
CS-25 1	30
CS-26 1	31
CS-27 1	32
CS-28 1	33
CS-29 1	34
CS-30 1	35
QC Summary Data	36
QC - Volatile Organic Compounds by EPA 8260B	36
QC - Volatile Organics by EPA 8021B	37
QC - Nonhalogenated Organics by EPA 8015D - GRO	38
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	40
QC - Anions by EPA 300.0/9056A	42
Definitions and Notes	44
Chain of Custody etc.	45

### Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/24 14:46
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1 1	E411048-01A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-2 1	E411048-02A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-3 1	E411048-03A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-4 1.5	E411048-04A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-5 1.5	E411048-05A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-6 1.5	E411048-06A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-7 1.5	E411048-07A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-8 1.5	E411048-08A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-9 1.5	E411048-09A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-10 1.5	E411048-10A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-11 1.5	E411048-11A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-12 1.5	E411048-12A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-13 1.5	E411048-13A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-14 1	E411048-14A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-15 1	E411048-15A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-16 1	E411048-16A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-17 1	E411048-17A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-18 1	E411048-18A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-19 1	E411048-19A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-20 1	E411048-20A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-21 1	E411048-21A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-22 1	E411048-22A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-23 1	E411048-23A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-24 1	E411048-24A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-25 1	E411048-25A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-26 1	E411048-26A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-27 1	E411048-27A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-28 1	E411048-28A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-29 1	E411048-29A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
CS-30 1	E411048-30A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.

### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-1 1**

**E411048-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	280	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-2 1**

**E411048-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		97.4 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	77.7	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		124 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	280	20.0	1	11/06/24	11/06/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-3 1**

**E411048-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	36.2	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	411	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-4 1.5**

**E411048-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.8 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.8 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		130 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	922	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-5 1.5**  
**E411048-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		98.5 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.3 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		98.5 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.3 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	928	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-6 1.5**

**E411048-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		98.1 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		98.1 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	975	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-7 1.5**  
**E411048-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		126 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	2080	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-8 1.5**

**E411048-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	1960	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-9 1.5**  
**E411048-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/08/24	
Toluene	ND	0.0250	1	11/06/24	11/08/24	
o-Xylene	ND	0.0250	1	11/06/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.0 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/08/24	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	11/06/24	11/08/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.0 %	70-130	11/06/24	11/08/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	11/06/24	11/08/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	2040	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-10 1.5**

**E411048-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.6 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		97.8 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.6 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	12600	200	10	11/06/24	11/06/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-11 1.5**

**E411048-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	321	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-12 1.5**

**E411048-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	170	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-13 1.5**

**E411048-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.8 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.8 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	2260	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-14 1**

**E411048-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.4 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	264	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-15 1**

**E411048-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2445072
Chloride	13700	200	10	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-16 1**

**E411048-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		97.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		126 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	4340	40.0	2	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-17 1**

**E411048-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	326	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-18 1**

**E411048-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		126 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	1920	20.0	1	11/06/24	11/06/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-19 1**

**E411048-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.8 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.8 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445072
Chloride	10800	200	10	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-20 1**

**E411048-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2445066
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		95.2 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2445066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: Bromofluorobenzene</i>		95.2 %	70-130	11/06/24	11/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %	70-130	11/06/24	11/09/24	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2445074
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: DT		Batch: 2445072
Chloride	477	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-21 1**

**E411048-21**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	7630	100	5	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-22 1**

**E411048-22**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	13000	200	10	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-23 1**

**E411048-23**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	13100	200	10	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-24 1**

**E411048-24**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.2 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	748	20.0	1	11/06/24	11/07/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-25 1**

**E411048-25**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	13200	200	10	11/06/24	11/07/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-26 1**

**E411048-26**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	12000	200	10	11/06/24	11/07/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-27 1**

**E411048-27**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	1280	20.0	1	11/06/24	11/06/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-28 1**

**E411048-28**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.3 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	975	40.0	2	11/06/24	11/07/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-29 1**

**E411048-29**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	581	20.0	1	11/06/24	11/07/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

**CS-30 1**

**E411048-30**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445085
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	11/06/24	11/07/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2445082
Chloride	875	20.0	1	11/06/24	11/07/24	



### QC Summary Data

Earth Systems	Project Name: RDU 40	<b>Reported:</b> 11/11/2024 2:46:59PM
1910 Resource Ct	Project Number: 01058-0007	
Carlsbad NM, 88220	Project Manager: Gilbert Moreno	

#### Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

**Blank (2445066-BLK1)**

Prepared: 11/06/24 Analyzed: 11/08/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
<i>Surrogate: Bromofluorobenzene</i>	0.490		0.500		98.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.493		0.500		98.6	70-130			
<i>Surrogate: Toluene-d8</i>	0.525		0.500		105	70-130			

**LCS (2445066-BS1)**

Prepared: 11/06/24 Analyzed: 11/08/24

Benzene	2.20	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.4	70-130			
Toluene	2.33	0.0250	2.50		93.3	70-130			
o-Xylene	2.44	0.0250	2.50		97.6	70-130			
p,m-Xylene	4.87	0.0500	5.00		97.4	70-130			
Total Xylenes	7.31	0.0250	7.50		97.5	70-130			
<i>Surrogate: Bromofluorobenzene</i>	0.467		0.500		93.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.483		0.500		96.6	70-130			
<i>Surrogate: Toluene-d8</i>	0.510		0.500		102	70-130			

**LCS Dup (2445066-BSD1)**

Prepared: 11/06/24 Analyzed: 11/08/24

Benzene	2.30	0.0250	2.50		92.0	70-130	4.61	23	
Ethylbenzene	2.55	0.0250	2.50		102	70-130	4.65	27	
Toluene	2.46	0.0250	2.50		98.3	70-130	5.18	24	
o-Xylene	2.63	0.0250	2.50		105	70-130	7.55	27	
p,m-Xylene	5.24	0.0500	5.00		105	70-130	7.30	27	
Total Xylenes	7.87	0.0250	7.50		105	70-130	7.38	27	
<i>Surrogate: Bromofluorobenzene</i>	0.491		0.500		98.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.498		0.500		99.6	70-130			
<i>Surrogate: Toluene-d8</i>	0.510		0.500		102	70-130			



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

#### Volatile Organics by EPA 8021B

Analyst: BA

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

**Blank (2445081-BLK1)**

Prepared: 11/06/24 Analyzed: 11/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		100	70-130			

**LCS (2445081-BS1)**

Prepared: 11/06/24 Analyzed: 11/09/24

Benzene	5.33	0.0250	5.00		107	70-130			
Ethylbenzene	5.14	0.0250	5.00		103	70-130			
Toluene	5.26	0.0250	5.00		105	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

**LCS Dup (2445081-BSD1)**

Prepared: 11/06/24 Analyzed: 11/09/24

Benzene	5.32	0.0250	5.00		106	70-130	0.196	20	
Ethylbenzene	5.15	0.0250	5.00		103	70-130	0.0923	20	
Toluene	5.25	0.0250	5.00		105	70-130	0.239	20	
o-Xylene	5.16	0.0250	5.00		103	70-130	0.0330	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	0.132	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	0.0775	20	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/11/2024 2:46:59PM

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

Analyst: IY

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

**Blank (2445066-BLK1)**

Prepared: 11/06/24 Analyzed: 11/08/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

**LCS (2445066-BS2)**

Prepared: 11/06/24 Analyzed: 11/08/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

**LCS Dup (2445066-BSD2)**

Prepared: 11/06/24 Analyzed: 11/08/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130	0.888	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/11/2024 2:46:59PM

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

Analyst: BA

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

**Blank (2445081-BLK1)**

Prepared: 11/06/24 Analyzed: 11/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

**LCS (2445081-BS2)**

Prepared: 11/06/24 Analyzed: 11/09/24

Gasoline Range Organics (C6-C10)	39.5	20.0	50.0		78.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

**LCS Dup (2445081-BSD2)**

Prepared: 11/06/24 Analyzed: 11/09/24

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.6	70-130	4.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			





### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

**Blank (2445074-BLK1)**

Prepared: 11/06/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	58.5		50.0		117	50-200			

**LCS (2445074-BS1)**

Prepared: 11/06/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132			
Surrogate: <i>n</i> -Nonane	56.5		50.0		113	50-200			

**LCS Dup (2445074-BSD1)**

Prepared: 11/06/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132	0.582	20	
Surrogate: <i>n</i> -Nonane	57.8		50.0		116	50-200			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/11/2024 2:46:59PM

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

**Blank (2445085-BLK1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.6		50.0		105	50-200			

**LCS (2445085-BS1)**

Prepared: 11/06/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

**LCS Dup (2445085-BSD1)**

Prepared: 11/06/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	232	25.0	250		92.6	38-132	2.84	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

#### Anions by EPA 300.0/9056A

Analyst: DT

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

**Blank (2445072-BLK1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride ND 20.0

**LCS (2445072-BS1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride 258 20.0 250 103 90-110

**Matrix Spike (2445072-MS1)**

Source: E411048-04

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride 1180 20.0 250 922 104 80-120

**Matrix Spike Dup (2445072-MSD1)**

Source: E411048-04

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride 1180 20.0 250 922 105 80-120 0.220 20



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/11/2024 2:46:59PM
---	---	--

#### Anions by EPA 300.0/9056A

Analyst: DT

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

**Blank (2445082-BLK1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride	ND	20.0							
----------	----	------	--	--	--	--	--	--	--

**LCS (2445082-BS1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride	254	20.0	250		102	90-110			
----------	-----	------	-----	--	-----	--------	--	--	--

**Matrix Spike (2445082-MS1)**

Source: E411048-27

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride	1610	20.0	250	1280	130	80-120			M4
----------	------	------	-----	------	-----	--------	--	--	----

**Matrix Spike Dup (2445082-MSD1)**

Source: E411048-27

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride	1570	20.0	250	1280	115	80-120	2.31	20	
----------	------	------	-----	------	-----	--------	------	----	--

QC Summary Report Comment:

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



### Definitions and Notes

Earth Systems	Project Name:	RDU 40	
1910 Resource Ct	Project Number:	01058-0007	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/11/24 14:46

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

*MPS per Gilbert*

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Earth Systems R & R				Company: WPX Energy Permian				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: RDU 40				Address: 5315 Buena Vista Dr				E411048		0058-0007		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com															
Phone: 832-541-7719				WO: 21402114															
Email: gmoreno@earthsys.net																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
8:30	11/4/2024	S	1	CS-1		1		1				X							
8:40	11/4/2024	S	1	CS-2		2		1				X							
8:50	11/4/2024	S	1	CS-3		3		1				X							
9:00	11/4/2024	S	1	CS-4		4		1.5				X							
9:10	11/4/2024	S	1	CS-5		5		1.5				X							
9:20	11/4/2024	S	1	CS-6		6		1.5				X							
9:30	11/4/2024	S	1	CS-7		7		1.5				X							
9:40	11/4/2024	S	1	CS-8		8		1.5				X							
9:50	11/4/2024	S	1	CS-9		9		1.5				X							
10:00	11/4/2024	S	1	CS-10		10		1.5				X							
<b>Additional Instructions:</b> I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>GM</u>																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
<i>Gilbert Moreno</i>		11-4-24	6:00 PM	<i>Michelle Gonzales</i>		11-4-24	1:00	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>											
<i>Michelle Gonzales</i>		11-5-24	1:15	<i>John H.</i>		11-5-24	17:30												
<i>John H.</i>		11-5-24	7:34:5	<i>Carth Mar</i>		11-6-24	7:30												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____ Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Earth Systems R & R				Company: WPX Energy Permian				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: RDU 40				Address: 5315 Buena Vista Dr				E 411048		01058-0007		X			X	X			
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com															
Phone: 832-541-7719				WO: 21402114															
Email: gmoreno@earthsys.net																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
10:10	11/4/2024	S	1	CS-11		11		1.5				X							
10:20	11/4/2024	S	1	CS-12		12		1.5				X							
10:30	11/4/2024	S	1	CS-13		13		1.5				X							
10:40	11/4/2024	S	1	CS-14		14		1				X							
10:50	11/4/2024	S	1	CS-15		15		1				X							
11:00	11/4/2024	S	1	CS-16		16		1				X							
11:10	11/4/2024	S	1	CS-17		17		1				X							
11:20	11/4/2024	S	1	CS-18		18		1				X							
11:30	11/4/2024	S	1	CS-19		19		1				X							
11:40	11/4/2024	S	1	CS-20		20		1				X							
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: GM																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			





Chain of Custody

*MCS per Gilbert*

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Earth Systems R & R				Company: WPX Energy Permian				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: RDU 40				Address: 5315 Buena Vista Dr				E 411048		01058-0007		X			X	X					
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																	
Address: 1910 Resource Ct				Phone:																	
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com																	
Phone: 832-541-7719				WO: 21402114																	
Email: gmoreno@earthsys.net																					
Sample Information										Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA			
11:50	11/4/2024	S	1	CS-21		21		1				X									
12:00	11/4/2024	S	1	CS-22		22		1				X									
12:10	11/4/2024	S	1	CS-23		23		1				X									
12:20	11/4/2024	S	1	CS-24		24		1				X									
12:30	11/4/2024	S	1	CS-25		25		1				X									
12:40	11/4/2024	S	1	CS-26		26		1				X									
12:50	11/4/2024	S	1	CS-27		27		1				X									
13:00	11/4/2024	S	1	CS-28		28		1				X									
13:10	11/4/2024	S	1	CS-29		29		1				X									
13:20	11/4/2024	S	1	CS-30		30		1				X									
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: GM																					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					





Envirotech Analytical Laboratory

Printed: 11/6/2024 9:59:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems Date Received: 11/06/24 07:30 Work Order ID: E411048
Phone: 832-541-7719 Date Logged In: 11/05/24 15:11 Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net Due Date: 11/14/24 17:00 (6 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

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

Date



envirotech Inc.

Report to:  
Gilbert Moreno



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Earth Systems

Project Name:	RDU 40
Work Order:	E411055
Job Number:	01058-0007
Received:	11/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/12/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 11/12/24

Gilbert Moreno  
1910 Resource Ct  
Carlsbad, NM 88220

Project Name: RDU 40  
Workorder: E411055  
Date Received: 11/6/2024 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: RDU 40.

The analytical test results summarized in this report with the Project Name: RDU 40 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW-1 0-1.5'	5
SW-2 0-1.5'	6
SW-3 0-1.5'	7
SW-4 0-1.5'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

### Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/12/24 09:33
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1 0-1.5'	E411055-01A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
SW-2 0-1.5'	E411055-02A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
SW-3 0-1.5'	E411055-03A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
SW-4 0-1.5'	E411055-04A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/12/2024 9:33:14AM
---	---	--

**SW-1 0-1.5'**

**E411055-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2445076
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.5 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2445076
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2445100
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	11/07/24	11/08/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: WF		Batch: 2445086
Chloride	179	20.0	1	11/06/24	11/07/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/12/2024 9:33:14AM
---	---	--

**SW-2 0-1.5'**

**E411055-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445076
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445076
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445100
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	11/07/24	11/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: WF		Batch: 2445086
Chloride	168	20.0	1	11/06/24	11/07/24	



### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/12/2024 9:33:14AM
---	---	--

**SW-3 0-1.5'**

**E411055-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445076
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445076
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445100
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	11/07/24	11/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: WF		Batch: 2445086
Chloride	261	20.0	1	11/06/24	11/07/24	





### Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/12/2024 9:33:14AM
---	---	--

**SW-4 0-1.5'**

**E411055-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445076
Benzene	ND	0.0250	1	11/06/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/09/24	
Toluene	ND	0.0250	1	11/06/24	11/09/24	
o-Xylene	ND	0.0250	1	11/06/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2445076
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	11/06/24	11/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2445100
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	11/07/24	11/08/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: WF		Batch: 2445086
Chloride	254	20.0	1	11/06/24	11/07/24	



### QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: RDU 40 Project Number: 01058-0007 Project Manager: Gilbert Moreno	<b>Reported:</b> 11/12/2024 9:33:14AM
---	---	--

#### Volatile Organics by EPA 8021B

Analyst: BA

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

#### Blank (2445076-BLK1)

Prepared: 11/06/24 Analyzed: 11/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

#### LCS (2445076-BS1)

Prepared: 11/06/24 Analyzed: 11/09/24

Benzene	5.84	0.0250	5.00		117	70-130			
Ethylbenzene	5.61	0.0250	5.00		112	70-130			
Toluene	5.75	0.0250	5.00		115	70-130			
o-Xylene	5.63	0.0250	5.00		113	70-130			
p,m-Xylene	11.4	0.0500	10.0		114	70-130			
Total Xylenes	17.0	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

#### LCS Dup (2445076-BSD1)

Prepared: 11/06/24 Analyzed: 11/09/24

Benzene	5.00	0.0250	5.00		100	70-130	15.5	20	
Ethylbenzene	4.80	0.0250	5.00		96.0	70-130	15.6	20	
Toluene	4.92	0.0250	5.00		98.4	70-130	15.6	20	
o-Xylene	4.82	0.0250	5.00		96.3	70-130	15.5	20	
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130	15.3	20	
Total Xylenes	14.6	0.0250	15.0		97.2	70-130	15.4	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/12/2024 9:33:14AM

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

Analyst: BA

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

**Blank (2445076-BLK1)**

Prepared: 11/06/24 Analyzed: 11/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

**LCS (2445076-BS2)**

Prepared: 11/06/24 Analyzed: 11/09/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0		81.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

**LCS Dup (2445076-BSD2)**

Prepared: 11/06/24 Analyzed: 11/09/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0		78.4	70-130	3.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/12/2024 9:33:14AM

#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

**Blank (2445100-BLK1)**

Prepared: 11/07/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.0		50.0		112	50-200			

**LCS (2445100-BS1)**

Prepared: 11/07/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

**LCS Dup (2445100-BSD1)**

Prepared: 11/07/24 Analyzed: 11/07/24

Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132	2.01	20	
Surrogate: n-Nonane	57.9		50.0		116	50-200			



### QC Summary Data

Earth Systems	Project Name:	RDU 40	<b>Reported:</b>
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/12/2024 9:33:14AM

#### Anions by EPA 300.0/9056A

Analyst: WF

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

**Blank (2445086-BLK1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride	ND	20.0							
----------	----	------	--	--	--	--	--	--	--

**LCS (2445086-BS1)**

Prepared: 11/06/24 Analyzed: 11/06/24

Chloride	250	20.0	250		100	90-110			
----------	-----	------	-----	--	-----	--------	--	--	--

**Matrix Spike (2445086-MS1)**

Source: E411051-06

Prepared: 11/06/24 Analyzed: 11/07/24

Chloride	272	20.0	250	ND	109	80-120			
----------	-----	------	-----	----	-----	--------	--	--	--

**Matrix Spike Dup (2445086-MSD1)**

Source: E411051-06

Prepared: 11/06/24 Analyzed: 11/07/24

Chloride	271	20.0	250	ND	109	80-120	0.0873	20	
----------	-----	------	-----	----	-----	--------	--------	----	--

QC Summary Report Comment:

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



### Definitions and Notes

Earth Systems	Project Name:	RDU 40	
1910 Resource Ct	Project Number:	01058-0007	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/12/24 09:33

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

<b>Client Information</b>	<b>Invoice Information</b>	<b>Lab Use Only</b>				<b>State</b>					
Client: Earth Systems R & R	Company: WPX Energy Permian	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project Name: RDU 40	Address: 5315 Buena Vista Dr	E411055	010580007	X			X	X			
Project Manager: Gilbert Moreno	City, State, Zip: Carlsbad, NM 88220										
Address: 1910 Resource Ct	Phone:										
City, State, Zip: Carlsbad NM, 88220	Email: jim.raley@dvn.com										
Phone: 832-541-7719	WO: 21402114										
Email: gmoreno@earthsys.net											

*WLB per Gilbert*

Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TEEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
13:30	11/4/2024	S	1	SW-1		1		0-1.5				X							
13:30	11/4/2024	S	1	SW-2		2		0-1.5				X							
13:40	11/4/2024	S	1	SW-3		3		0-1.5				X							
13:50	11/4/2024	S	1	SW-4		4		0-1.5				X							

*MRS per Gilbert*

*Gilbert*

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: GM						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
<i>Gilbert</i>	11-4-24	6:00 PM	<i>Michelle Gonzales</i>	11-4-24	1800						
<i>Michelle Gonzales</i>	11-5-24	11:15	<i>Carth M</i>	11-5-24	1730						
<i>Carth M</i>	11-5-24	2:345	<i>Carth M</i>	11-6-24	7:30						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





### Envirotech Analytical Laboratory

Printed: 11/6/2024 10:33:55AM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems	Date Received: 11/06/24 07:30	Work Order ID: E411055
Phone: 832-541-7719	Date Logged In: 11/06/24 10:26	Logged In By: Noe Soto
Email: gmoreno@earthsys.net	Due Date: 11/14/24 17:00 (6 day TAT)	

#### Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

#### Comments/Resolution

#### Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

#### Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

#### Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

#### Field Label

- 20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

#### Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

#### Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

#### Subcontract Laboratory

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

#### Client Instruction

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

Date



envirotech Inc.



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 409042

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2425330146
Incident Name	NAPP2425330146 ROSS DRAW UNIT #040 @ 30-015-42297
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42297] ROSS DRAW UNIT #040

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	ROSS DRAW UNIT #040
Date Release Discovered	09/04/2024
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 1 BBL   Recovered: 1 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 10 BBL   Recovered: 9 BBL   Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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, Page 2

Action 409042

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

*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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*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@dvsn.com Date: 12/05/2024
--	---

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, Page 3

Action 409042

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
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
<i>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.</i>	
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)	25000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	24088
GRO+DRO (EPA SW-846 Method 8015M)	7660
BTEX (EPA SW-846 Method 8021B or 8260B)	12.8
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	10/30/2024
On what date will (or did) the final sampling or liner inspection occur	11/04/2024
On what date will (or was) the remediation complete(d)	11/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	4224
What is the estimated volume (in cubic yards) that will be reclaimed	630
What is the estimated surface area (in square feet) that will be remediated	5934
What is the estimated volume (in cubic yards) that will be remediated	494

*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, Page 4

Action 409042

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: 12/05/2024
--	--

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

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, Page 5

Action 409042

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of 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**

QUESTIONS, Page 6

Action 409042

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>396940</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>11/04/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>34</b>
What was the sampling surface area in square feet	<b>5934</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5934
What was the total volume (cubic yards) remediated	494
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/05/2024
--	--

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, Page 7

Action 409042

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation 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

Action 409042

**CONDITIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409042
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	None	12/30/2024