



April 24, 2025

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

RE: **EOG Nelson Fed #8 (MAL-13-13) - Closure Request Report**
Incident Number: nAPP2505739485
GPS: 32.78301°, -103.96420°
Eddy County, New Mexico
ESRR Project No. VP-49

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Kinetik Midstream (Kinetik), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil at the EOG Nelson Fed #8 (MAL-13-13) (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Kinetik is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit L, Section 03, Township 18 South, Range 30 East, in Eddy County, New Mexico (32.78301°, -103.96420°) 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 February 26, 2025, a corroded pipeline ruptured, causing the release of approximately 9 barrels (bbl) of crude oil onto a Kinetik right-of-way (ROW) and adjacent native soils. A vacuum truck was immediately dispatched to the Site and recovered 8 bbls of fluids. Initial excavation activities were immediately conducted around the pipeline, removing the top 2 to 3 feet of saturated soil below ground surface (bgs). ESRR conducted initial site assessment activities and mapped the observed footprint on March 6, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Kinetik gave notice to the New Mexico Oil Conservation Division (NMOCD) on February 26, 2025, by Notification of Release (NOR) and later by a Corrective Action Form C-141 (Form C-141) on March 3, 2025. The release was subsequently assigned Incident Number nAPP2505739485.

Site Characterization

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

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

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- o Between 1 and 5 miles of any other freshwater well or spring;
- o Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- o Between 1 and 5 miles of any wetland;
- o Greater than 5 miles of any subsurface mine;
- o Greater than 5 miles of any unstable area (i.e. high karst potential); and
- o Between 1,000 feet and ½ mile of a 100-year floodplain.

Receptor details used to determine the Site characterization are included in **Figure 1A** and **Figure 1B**. **Referenced Well Record** is attached.

Based on the results from the desktop review, no depth to water wells were found within ½ mile. The following Closure Criteria was applied:

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

[‡] The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

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

Delineation Activities

On March 6, 2025, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Eight delineation boreholes (HA-1 through HA-8) were advanced via hand shovel within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of one soil sample was collected from each delineation borehole within the AOC, representing the highest observed field screening concentration and the greatest depth. A minimum of two soil samples were collected in each delineation borehole surrounding the AOC in all cardinal directions. Delineation soil samples were placed directly into lab-provided pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for soil samples (HA-5 through HA-8) were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for delineation soil samples (HA-1 through HA-4), collected within the AOC, indicated either TPH-GRO+TPH-DRO/TPH, Chloride, Benzene, and/or Total BTEX were above the Site Closure Criteria and/or the reclamation standard. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 226 to 9,200 mg/kg, specifically for TPH-GRO and TPH-DRO. Elevated Chloride concentrations were characterized by concentrations ranging from 2,210 to 15,600 mg/kg. Elevated Benzene concentrations were characterized by concentrations ranging from 34.2 to 41.8 mg/kg. Elevated Total BTEX concentrations were characterized by concentrations ranging from 335 to 422 mg/kg.

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On March 19, 2025, ESRR conducted additional delineation activities, further advancing delineation boreholes (HA-1 through HA-4) within the AOC via mechanical equipment. Each Delineation borehole was advanced to depths ranging from 5 to 9 feet bgs and field screened as previously described. The greatest depth for each delineation borehole helped define the vertical extent of the AOC. The delineation soil samples were handled, transported, and analyzed as previously described. 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

During March 2025, excavation activities of identified impacts were 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 ranging from 5 to 8-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-10) and sidewalls (SW-1 through SW-5). 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 400 cubic yards (CY) of impacted soil was removed from the Site and transported to Lea Land in Hobbs, New Mexico under Kinetik 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 for all final confirmation soil samples, Kinetik believes that residual soil impacts associated with the inadvertent release have been excavated and removed from the Site in accordance with Site Closure Criteria. Kinetik believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment, and groundwater. As such, NFA appears warranted at this time, and Kinetik respectfully requests Closure of this CRR associated with Incident Number nAPP2505739485.

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

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Sincerely,
EARTH SYSTEMS RESPONSE & RESTORATION

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

Gilbert Moreno
Carlsbad Operations Manager-Project Geologist

cc: Sebastian Orozco, Kinetik Midstream
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
- Referenced Well Records
- 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

Kinetik Midstream – EOG Nelson Fed #8 (MAL-13-13)
GPS: 32.78301,-103.96420
Eddy County, New Mexico

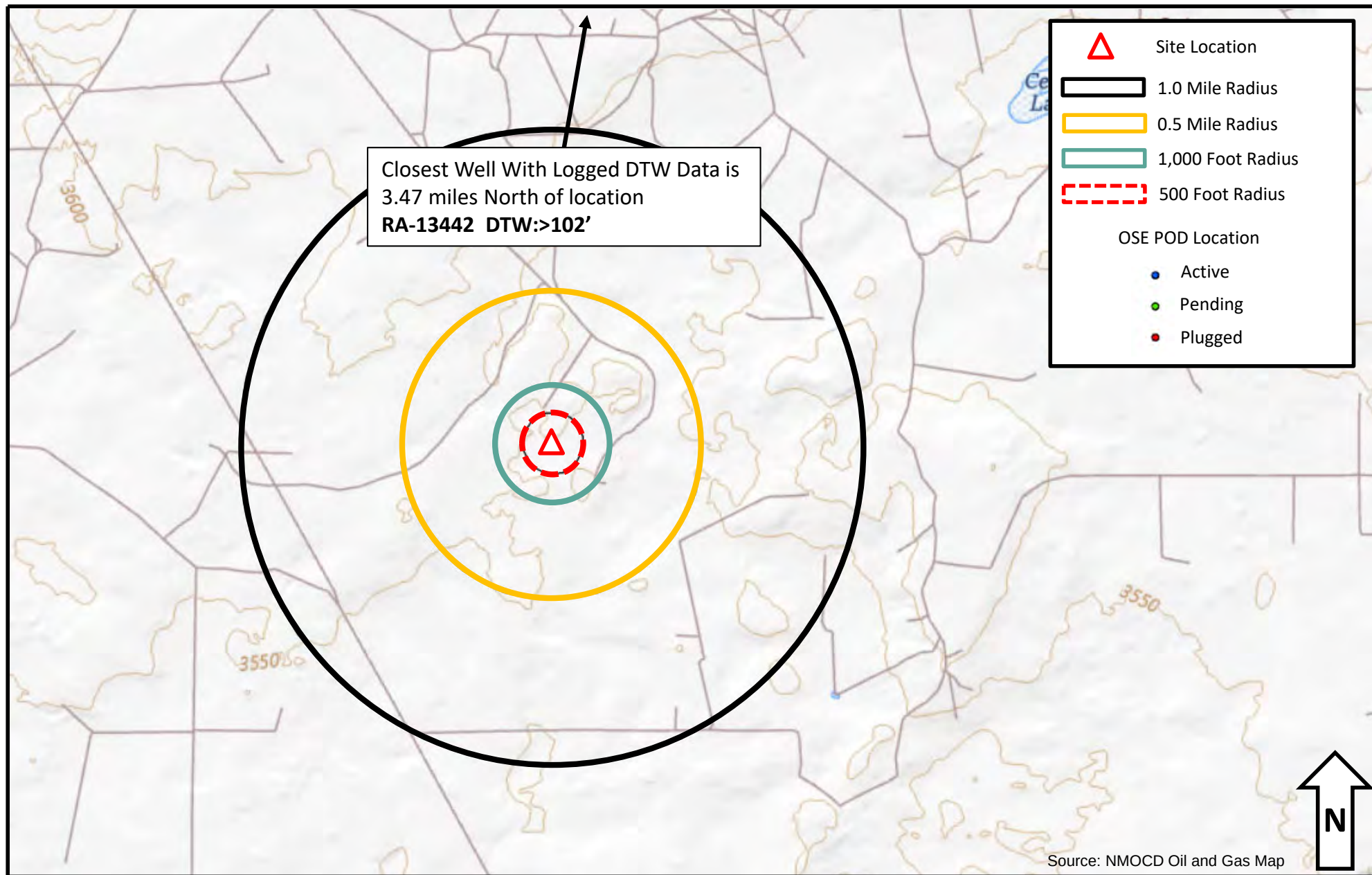


Figure 1A – Ground Water

Kinetik Midstream – EOG Nelson Fed #8 (MAL-13-13)
GPS: 32.78301,-103.96420
Eddy County, New Mexico

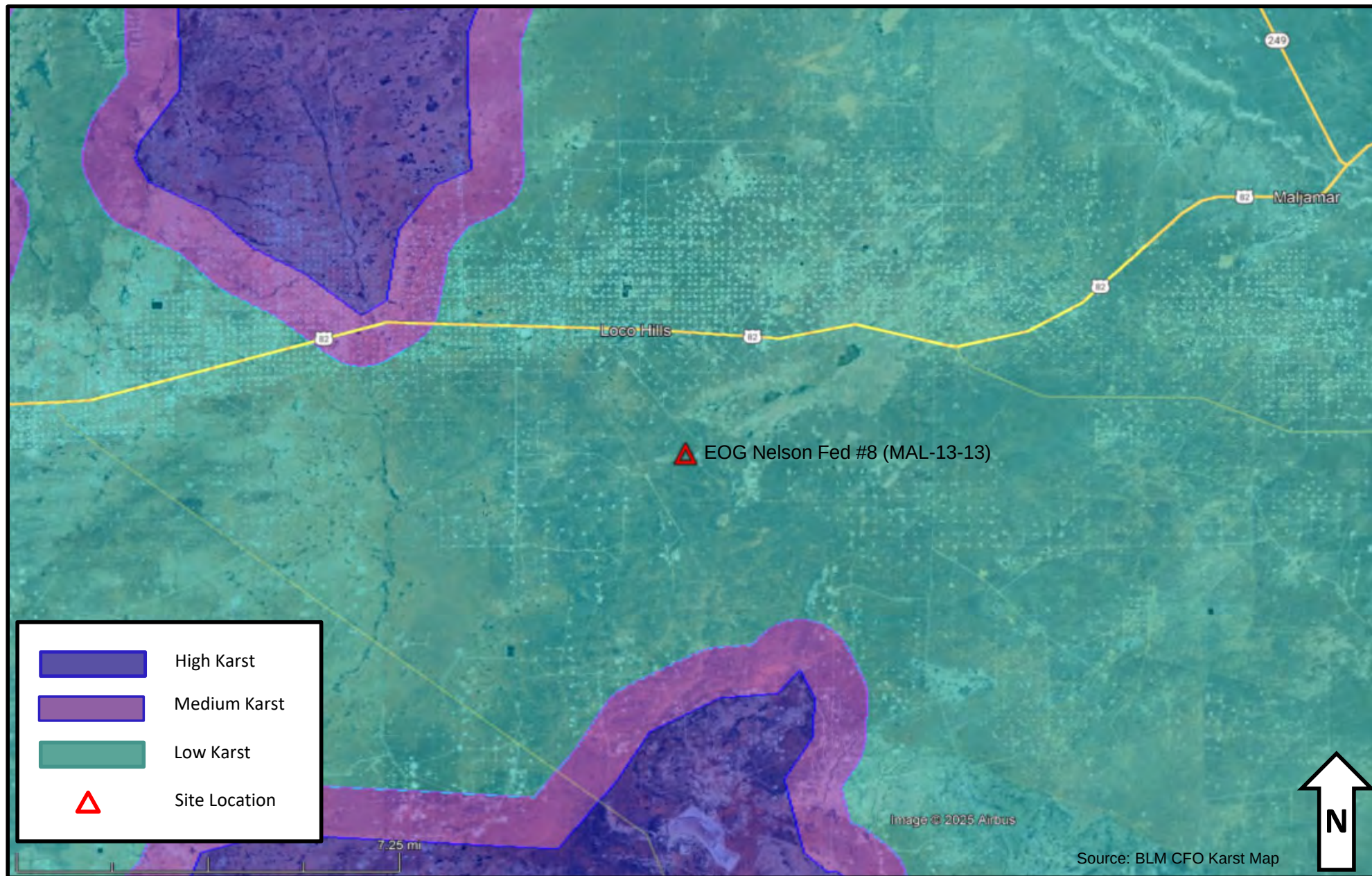


Figure 1B – Karst Potential

Kinetik Midstream – EOG Nelson Fed #8 (MAL-13-13)
GPS: 32.78301,-103.96420
Eddy County, New Mexico

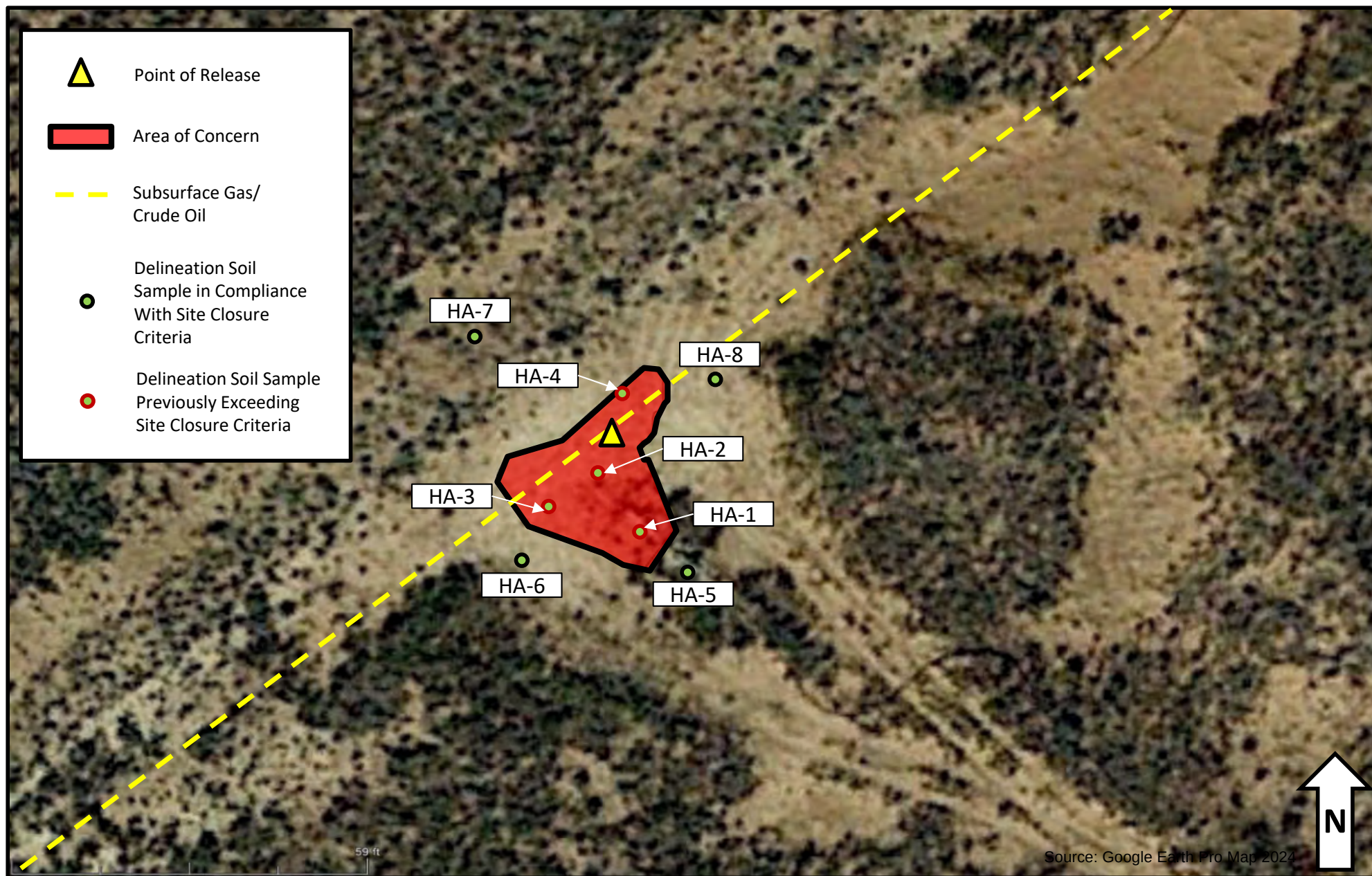


Figure 2 – Delineation Soil Sample Locations

Kinetik Midstream – EOG Nelson Fed #8 (MAL-13-13)
GPS: 32.78301,-103.96420
Eddy County, New Mexico



Figure 3 – Excavation Soil Sample Locations

Kinetik Midstream – EOG Nelson Fed #8 (MAL-13-13)
GPS: 32.78301,-103.96420
Eddy County, New Mexico



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). RA-13442			
	WELL OWNER NAME(S) Spur Energy Partners LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 919 Miliam St Ste 2475				CITY Houston	STATE TX	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 50	SECONDS 0.28 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	57	32.68 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW SE Sec. 15 T17S R30R, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 04/25/2024	DRILLING ENDED 04/25/2024	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±102	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 05/07/2024		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 102		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. RA-13442	POD NO. 1	TRN NO. 758800
LOCATION 175.30E-15 114	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	9	9	Sand, medium/fine grained, with off-white caliche, dry	Y ✓ N	
	9	59	50	Sand, medium/fine grained, poorly grade, Light brown	Y ✓ N	
	59	79	20	Sand, medium/fine grained, poorly grade, Reddish Brown	Y ✓ N	
	79	102	23	Sand, medium/fine grained, poorly grade, with clay Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	Jack Atkins Jack Atkins (May 13, 2024 12:55 MDT)	Jackie D. Atkins 05/10/2024
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. RA-13442	POD NO. 1	TRN NO. 758800
LOCATION 175.30E-15 114	WELL TAG ID NO. NA	PAGE 2 OF 2

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PHOTO 1: Southwestern view after initial excavation and repairs made by Kinetik. 03/06/2025



PHOTO 2: Southeastern view during delineation activities. 03/06/2025

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PHOTO 3: Southeastern view during delineation activities. 03/19/2025



PHOTO 4: Southeastern view during delineation activities. 03/19/2025

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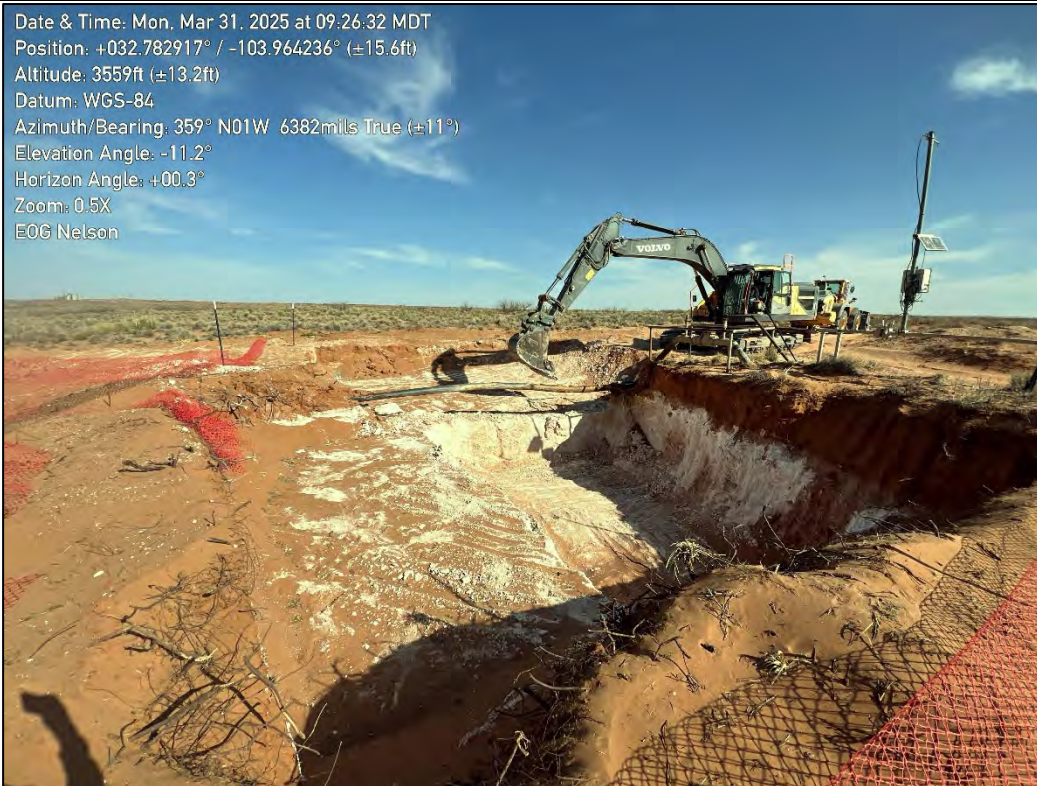


PHOTO 5: Northwestern view of excavation extent. 03/31/2025

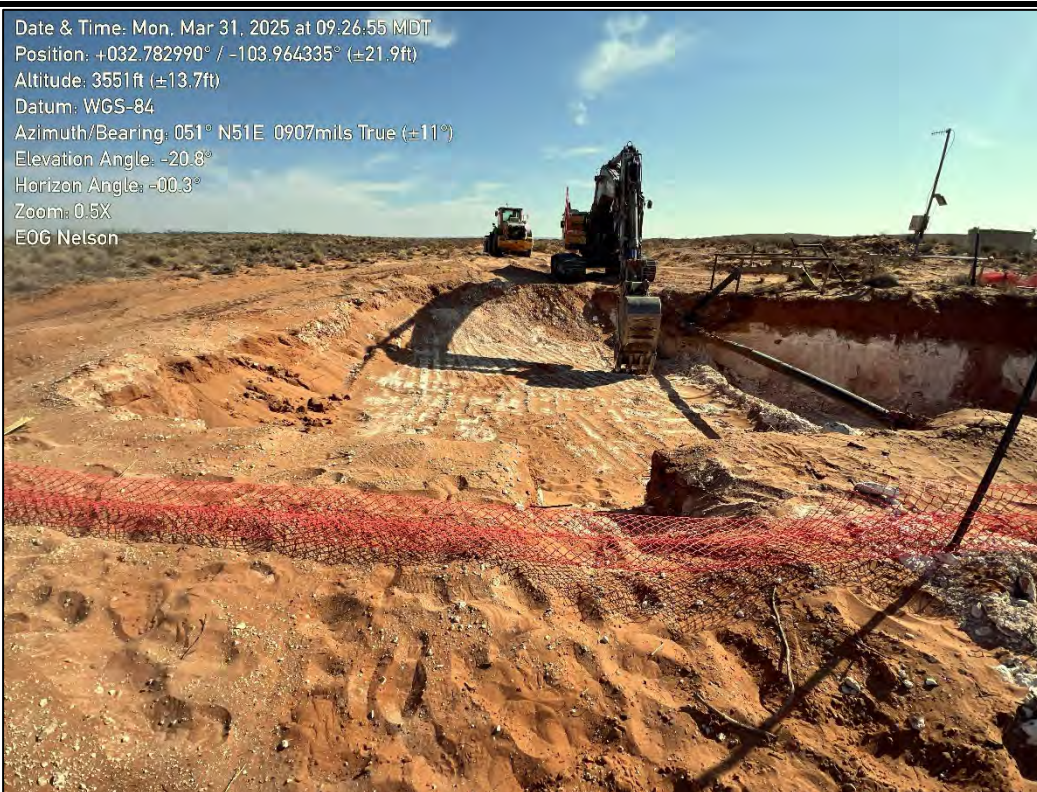


PHOTO 6: Northeastern view during excavation activities. 03/31/2025

EOG Nelson Fed #8 (MAL-13-13) - Closure Request Report
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PHOTO 7: Southeastern view of excavation extent. 03/31/2025



PHOTO 8: Northwestern view after restoration activities. 04/04/2025

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PHOTO 9: Southeastern view after restoration activities. 04/04/2025

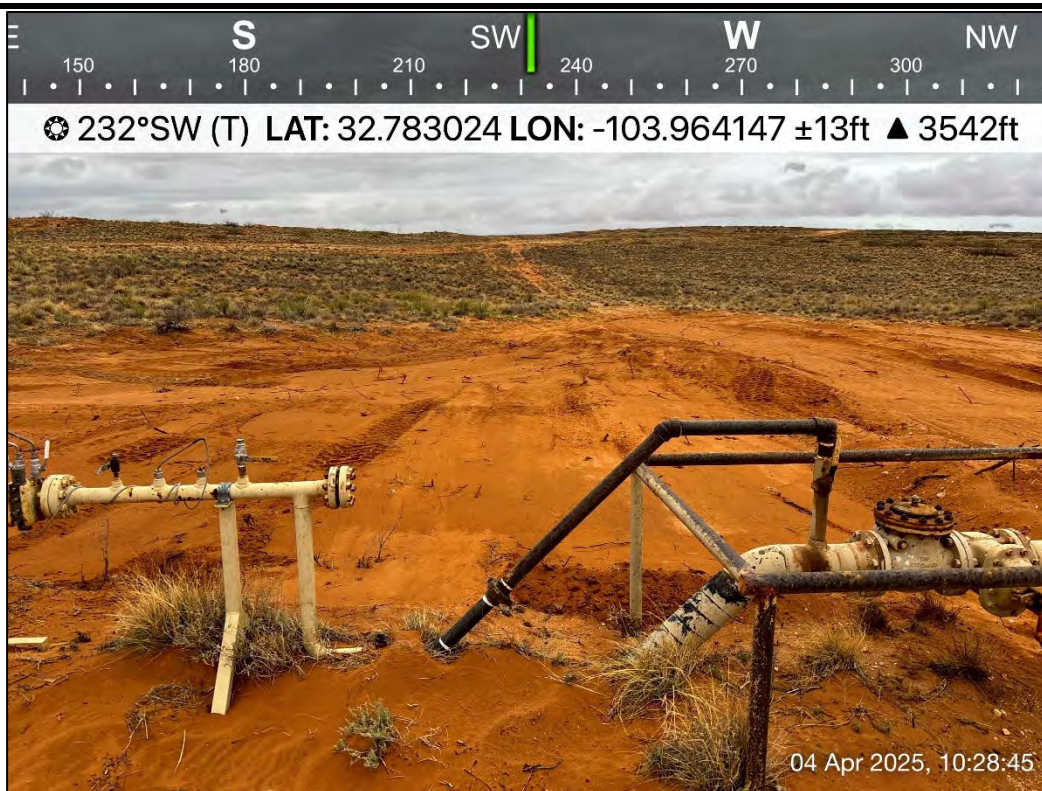


PHOTO 10: Southwestern view after restoration activities. 04/04/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
EOG Nelson Fed #8 (MAL-13-13)
Eddy County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Samples - nAPP2505739485									
HA - 1	03/06/25	3.5	<0.00199	0.111	<49.8	319	<49.8	319	2,210
HA - 1	03/19/25	5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	68.0
HA - 2	03/06/25	3	34.2	335	2,560	6,640	<49.7	9,200	9,920
HA - 2	03/19/25	5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	2,690
HA - 2	03/19/25	8	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	94.7
HA - 3	03/06/25	3	1.04	34.6	<49.8	226	<49.8	226	429
HA - 3	03/19/25	5	<0.0199	1.55	225	1,070	<50.0	1,300	305
HA - 3	03/19/25	8	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	104
HA - 3	03/19/25	9	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	74.4
HA - 4	03/06/25	4.5	41.8	422	3,300	4,250	<49.9	7,550	15,600
HA - 4	03/19/25	6	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	8,870
HA - 4	03/19/25	8	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	449
HA - 4	03/19/25	9	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	87.0
HA - 5	03/06/25	0.5	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<9.96
HA - 5	03/06/25	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<9.92
HA - 6	03/06/25	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<10.1
HA - 6	03/06/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<9.94
HA - 7	03/06/25	0.5	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<9.98
HA - 7	03/06/25	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<10.0
HA - 8	03/06/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<9.96
HA - 8	03/06/25	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<9.90
Confirmation Soil Samples - nAPP2505739485									
CS - 1	03/31/25	5	<0.00204	<0.00409	<50.1	<50.1	<50.1	<50.1	63.8
CS - 2	03/31/25	5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	96.0
CS - 3	03/31/25	5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	66.8
CS - 4	03/31/25	5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	56.2
CS - 5	03/31/25	5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	78.6
CS - 6	03/31/25	5	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	70.0
CS - 7	03/31/25	5	<0.00204	<0.00409	<50.3	<50.3	<50.3	<50.3	69.5
CS - 8	03/31/25	8	<0.00199	<0.00398	<50.1	80.3	<50.1	80.3	190



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
EOG Nelson Fed #8 (MAL-13-13)
Eddy County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Confirmation Soil Samples - nAPP2505739485									
CS - 9	03/31/25	8	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	79.1
CS - 10	03/31/25	8	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	73.6
SW - 1	03/31/25	0-5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	51.6
SW - 2	03/31/25	0-8	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	96.5
SW - 3	03/31/25	0-8	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	60.4
SW - 4	03/31/25	0-8	<0.00204	0.039	<50.1	<50.1	<50.1	<50.1	95.0
SW - 5	03/31/25	0-8	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	80.1

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

NMAC: New Mexico Administrative Code

Text in ""grey"" represents excavated soil samples

Concentrations in **bold and highlighted** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard[†] for Soils Impacted by a Release

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 446123

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 446123
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2505739485
Incident Name	NAPP2505739485 EOG NELSON FED #8 (MAL-13-13) @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	EOG Nelson Fed #8 (MAL-13-13)
Date Release Discovered	02/26/2025
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/31/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno 832-541-7719
Please provide any information necessary for navigation to sampling site	32.783011,-103.964201

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 446123

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 446123
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	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.	3/27/2025



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765
Generated 3/7/2025 2:54:07 PM

JOB DESCRIPTION

EOG Nelson FED #8 (MAL-13-13)
Eddy County, NM

JOB NUMBER

890-7777-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



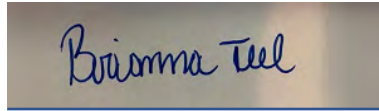
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Laboratory Job ID: 890-7777-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration
Project: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1

Job ID: 890-7777-1

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Job Narrative 890-7777-1

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

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

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

Receipt

The samples were received on 3/6/2025 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions

The following samples analyzed were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-7777-1), HA-2 (890-7777-2), HA-3 (890-7777-3) and HA-4 (890-7777-4).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-1 (890-7777-1), HA-2 (890-7777-2), HA-3 (890-7777-3) and HA-4 (890-7777-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-2 (890-7777-2) and HA-4 (890-7777-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104691 and analytical batch 880-104701 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7777-1

Date Collected: 03/06/25 12:00

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 20:00	03/07/25 04:57	1
Toluene	0.0239		0.00199		mg/Kg		03/06/25 20:00	03/07/25 04:57	1
Ethylbenzene	0.0246		0.00199		mg/Kg		03/06/25 20:00	03/07/25 04:57	1
m-Xylene & p-Xylene	0.0420		0.00398		mg/Kg		03/06/25 20:00	03/07/25 04:57	1
o-Xylene	0.0200		0.00199		mg/Kg		03/06/25 20:00	03/07/25 04:57	1
Xylenes, Total	0.0620		0.00398		mg/Kg		03/06/25 20:00	03/07/25 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	03/06/25 20:00	03/07/25 04:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/06/25 20:00	03/07/25 04:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.111		0.00398		mg/Kg			03/07/25 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	319		49.8		mg/Kg			03/07/25 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 04:27	1
Diesel Range Organics (Over C10-C28)	319		49.8		mg/Kg		03/06/25 19:59	03/07/25 04:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	03/06/25 19:59	03/07/25 04:27	1
o-Terphenyl	89		70 - 130	03/06/25 19:59	03/07/25 04:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210	F1	50.4		mg/Kg			03/07/25 10:22	5

Client Sample ID: HA-2

Lab Sample ID: 890-7777-2

Date Collected: 03/06/25 12:05

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	34.2		0.994		mg/Kg		03/06/25 20:00	03/07/25 05:17	500
Toluene	126		0.994		mg/Kg		03/06/25 20:00	03/07/25 05:17	500
Ethylbenzene	62.0		0.994		mg/Kg		03/06/25 20:00	03/07/25 05:17	500
m-Xylene & p-Xylene	81.2		1.99		mg/Kg		03/06/25 20:00	03/07/25 05:17	500
o-Xylene	31.6		0.994		mg/Kg		03/06/25 20:00	03/07/25 05:17	500
Xylenes, Total	113		1.99		mg/Kg		03/06/25 20:00	03/07/25 05:17	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	03/06/25 20:00	03/07/25 05:17	500

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7777-2

Date Collected: 03/06/25 12:05

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	03/06/25 20:00	03/07/25 05:17	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	335		1.99		mg/Kg			03/07/25 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9200		49.7		mg/Kg			03/07/25 04:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2560		49.7		mg/Kg		03/06/25 19:59	03/07/25 04:42	1
Diesel Range Organics (Over C10-C28)	6640		49.7		mg/Kg		03/06/25 19:59	03/07/25 04:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				03/06/25 19:59	03/07/25 04:42	1
o-Terphenyl	179	S1+	70 - 130				03/06/25 19:59	03/07/25 04:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9920		101		mg/Kg			03/07/25 10:44	10

Client Sample ID: HA-3

Lab Sample ID: 890-7777-3

Date Collected: 03/06/25 12:10

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.04		0.998		mg/Kg		03/06/25 20:00	03/07/25 05:38	500
Toluene	2.74		0.998		mg/Kg		03/06/25 20:00	03/07/25 05:38	500
Ethylbenzene	1.81		0.998		mg/Kg		03/06/25 20:00	03/07/25 05:38	500
m-Xylene & p-Xylene	<2.00	U	2.00		mg/Kg		03/06/25 20:00	03/07/25 05:38	500
o-Xylene	29.0		0.998		mg/Kg		03/06/25 20:00	03/07/25 05:38	500
Xylenes, Total	29.0		2.00		mg/Kg		03/06/25 20:00	03/07/25 05:38	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/06/25 20:00	03/07/25 05:38	500
1,4-Difluorobenzene (Surr)	109		70 - 130	03/06/25 20:00	03/07/25 05:38	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	34.6		2.00		mg/Kg			03/07/25 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	226		49.8		mg/Kg			03/07/25 04:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7777-3

Date Collected: 03/06/25 12:10

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 04:58	1
Diesel Range Organics (Over C10-C28)	226		49.8		mg/Kg		03/06/25 19:59	03/07/25 04:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 04:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				03/06/25 19:59	03/07/25 04:58	1
o-Terphenyl	82		70 - 130				03/06/25 19:59	03/07/25 04:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	429		9.96		mg/Kg			03/07/25 10:51	1

Client Sample ID: HA-4

Lab Sample ID: 890-7777-4

Date Collected: 03/06/25 12:15

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 4.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41.8		1.01		mg/Kg		03/06/25 20:00	03/07/25 05:58	500
Toluene	187		1.01		mg/Kg		03/06/25 20:00	03/07/25 05:58	500
Ethylbenzene	77.5		1.01		mg/Kg		03/06/25 20:00	03/07/25 05:58	500
m-Xylene & p-Xylene	82.5		2.01		mg/Kg		03/06/25 20:00	03/07/25 05:58	500
o-Xylene	33.4		1.01		mg/Kg		03/06/25 20:00	03/07/25 05:58	500
Xylenes, Total	116		2.01		mg/Kg		03/06/25 20:00	03/07/25 05:58	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				03/06/25 20:00	03/07/25 05:58	500
1,4-Difluorobenzene (Surr)	116		70 - 130				03/06/25 20:00	03/07/25 05:58	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	422		2.01		mg/Kg			03/07/25 05:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7550		49.9		mg/Kg			03/07/25 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3300		49.9		mg/Kg		03/06/25 19:59	03/07/25 05:13	1
Diesel Range Organics (Over C10-C28)	4250		49.9		mg/Kg		03/06/25 19:59	03/07/25 05:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 19:59	03/07/25 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				03/06/25 19:59	03/07/25 05:13	1
o-Terphenyl	143	S1+	70 - 130				03/06/25 19:59	03/07/25 05:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Client Sample ID: HA-4
Date Collected: 03/06/25 12:15
Date Received: 03/06/25 15:12
Sample Depth: 4.5

Lab Sample ID: 890-7777-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15600		200		mg/Kg			03/07/25 10:59	20

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7777-1	HA-1	148 S1+	105
890-7777-2	HA-2	149 S1+	111
890-7777-3	HA-3	105	109
890-7777-4	HA-4	148 S1+	116
LCS 880-104641/1-A	Lab Control Sample	86	108
LCSD 880-104641/2-A	Lab Control Sample Dup	86	107
MB 880-104564/5-A	Method Blank	109	85
MB 880-104641/5-A	Method Blank	104	85
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7777-1	HA-1	79	89
890-7777-2	HA-2	162 S1+	179 S1+
890-7777-3	HA-3	71	82
890-7777-4	HA-4	133 S1+	143 S1+
LCS 880-104678/2-A	Lab Control Sample	108	107
LCSD 880-104678/3-A	Lab Control Sample Dup	108	106
MB 880-104678/1-A	Method Blank	75	78
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104564/5-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 08:46	03/06/25 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 08:46	03/06/25 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 08:46	03/06/25 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 08:46	03/06/25 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 08:46	03/06/25 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 08:46	03/06/25 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/06/25 08:46	03/06/25 11:30	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/06/25 08:46	03/06/25 11:30	1

Lab Sample ID: MB 880-104641/5-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 14:17	03/06/25 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 14:17	03/06/25 22:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/06/25 14:17	03/06/25 22:25	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/06/25 14:17	03/06/25 22:25	1

Lab Sample ID: LCS 880-104641/1-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09715		mg/Kg		97	70 - 130
Toluene	0.100	0.09299		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.08100		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1611		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08172		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-104641/2-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1006		mg/Kg		101	70 - 130	4	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-104641/2-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09619		mg/Kg		96	70 - 130		3	35
Ethylbenzene	0.100	0.08512		mg/Kg		85	70 - 130		5	35
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130		5	35
o-Xylene	0.100	0.08613		mg/Kg		86	70 - 130		5	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-104678/1-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104678

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:56	03/07/25 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:56	03/07/25 00:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:56	03/07/25 00:03	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	75		70 - 130	03/06/25 19:56	03/07/25 00:03	1
o-Terphenyl	78		70 - 130	03/06/25 19:56	03/07/25 00:03	1

Lab Sample ID: LCS 880-104678/2-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-104678/3-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1018		mg/Kg		102	70 - 130		0	20
Diesel Range Organics (Over C10-C28)	1000	1176		mg/Kg		118	70 - 130		1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-104678/3-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104678

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104691/1-A

Matrix: Solid

Analysis Batch: 104701

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<10.0	U	10.0		mg/Kg			03/07/25 09:59		1

Lab Sample ID: LCS 880-104691/2-A

Matrix: Solid

Analysis Batch: 104701

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	246.2		mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-104691/3-A

Matrix: Solid

Analysis Batch: 104701

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	242.3		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 890-7777-1 MS

Matrix: Solid

Analysis Batch: 104701

Client Sample ID: HA-1

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2210	F1	1260	3704	F1	mg/Kg		118	90 - 110	

Lab Sample ID: 890-7777-1 MSD

Matrix: Solid

Analysis Batch: 104701

Client Sample ID: HA-1

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2210	F1	1260	3621	F1	mg/Kg		112	90 - 110	2	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 104557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Total/NA	Solid	8021B	104641
890-7777-2	HA-2	Total/NA	Solid	8021B	104641
890-7777-3	HA-3	Total/NA	Solid	8021B	104641
890-7777-4	HA-4	Total/NA	Solid	8021B	104641
MB 880-104564/5-A	Method Blank	Total/NA	Solid	8021B	104564
MB 880-104641/5-A	Method Blank	Total/NA	Solid	8021B	104641
LCS 880-104641/1-A	Lab Control Sample	Total/NA	Solid	8021B	104641
LCSD 880-104641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104641

Prep Batch: 104564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104564/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 104641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Total/NA	Solid	5035	
890-7777-2	HA-2	Total/NA	Solid	5035	
890-7777-3	HA-3	Total/NA	Solid	5035	
890-7777-4	HA-4	Total/NA	Solid	5035	
MB 880-104641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 104726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Total/NA	Solid	Total BTEX	
890-7777-2	HA-2	Total/NA	Solid	Total BTEX	
890-7777-3	HA-3	Total/NA	Solid	Total BTEX	
890-7777-4	HA-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 104596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Total/NA	Solid	8015B NM	104678
890-7777-2	HA-2	Total/NA	Solid	8015B NM	104678
890-7777-3	HA-3	Total/NA	Solid	8015B NM	104678
890-7777-4	HA-4	Total/NA	Solid	8015B NM	104678
MB 880-104678/1-A	Method Blank	Total/NA	Solid	8015B NM	104678
LCS 880-104678/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104678
LCSD 880-104678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104678

Prep Batch: 104678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Total/NA	Solid	8015NM Prep	
890-7777-2	HA-2	Total/NA	Solid	8015NM Prep	
890-7777-3	HA-3	Total/NA	Solid	8015NM Prep	
890-7777-4	HA-4	Total/NA	Solid	8015NM Prep	
MB 880-104678/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104678/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 104756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Total/NA	Solid	8015 NM	
890-7777-2	HA-2	Total/NA	Solid	8015 NM	
890-7777-3	HA-3	Total/NA	Solid	8015 NM	
890-7777-4	HA-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 104691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Soluble	Solid	DI Leach	
890-7777-2	HA-2	Soluble	Solid	DI Leach	
890-7777-3	HA-3	Soluble	Solid	DI Leach	
890-7777-4	HA-4	Soluble	Solid	DI Leach	
MB 880-104691/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104691/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104691/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7777-1 MS	HA-1	Soluble	Solid	DI Leach	
890-7777-1 MSD	HA-1	Soluble	Solid	DI Leach	

Analysis Batch: 104701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7777-1	HA-1	Soluble	Solid	300.0	104691
890-7777-2	HA-2	Soluble	Solid	300.0	104691
890-7777-3	HA-3	Soluble	Solid	300.0	104691
890-7777-4	HA-4	Soluble	Solid	300.0	104691
MB 880-104691/1-A	Method Blank	Soluble	Solid	300.0	104691
LCS 880-104691/2-A	Lab Control Sample	Soluble	Solid	300.0	104691
LCSD 880-104691/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104691
890-7777-1 MS	HA-1	Soluble	Solid	300.0	104691
890-7777-1 MSD	HA-1	Soluble	Solid	300.0	104691

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7777-1

Date Collected: 03/06/25 12:00

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104641	03/06/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104557	03/07/25 04:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104726	03/07/25 04:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104756	03/07/25 04:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 04:27	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104691	03/07/25 07:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	104701	03/07/25 10:22	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7777-2

Date Collected: 03/06/25 12:05

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104641	03/06/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	104557	03/07/25 05:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104726	03/07/25 05:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104756	03/07/25 04:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 04:42	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104691	03/07/25 07:49	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	104701	03/07/25 10:44	CH	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-7777-3

Date Collected: 03/06/25 12:10

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104641	03/06/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	104557	03/07/25 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104726	03/07/25 05:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104756	03/07/25 04:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 04:58	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104691	03/07/25 07:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104701	03/07/25 10:51	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-7777-4

Date Collected: 03/06/25 12:15

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	104641	03/06/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	104557	03/07/25 05:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104726	03/07/25 05:58	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Client Sample ID: HA-4
Date Collected: 03/06/25 12:15
Date Received: 03/06/25 15:12

Lab Sample ID: 890-7777-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104756	03/07/25 05:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 05:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104691	03/07/25 07:49	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	104701	03/07/25 10:59	CH	EET MID

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson FED #8 (MAL-13-13)

Job ID: 890-7777-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7777-1	HA-1	Solid	03/06/25 12:00	03/06/25 15:12	3.5
890-7777-2	HA-2	Solid	03/06/25 12:05	03/06/25 15:12	3
890-7777-3	HA-3	Solid	03/06/25 12:10	03/06/25 15:12	3
890-7777-4	HA-4	Solid	03/06/25 12:15	03/06/25 15:12	4.5

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Environment Testing
Xenco

Chain of Custody

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



890-7777 Chain of Custody

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

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

Project Name:	EOG Nelson Fed #8 (MAL-13-13)	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes						
Project Number:	2296															None: NO DI Water: H ₂ O						
Project Location:	Eddy County, NM	Due Date:	24 HR Rush TAT													Geel-Geel MeOH-Me						
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm															HCL-HG HNO ₃ -HN					
POWOW #:		Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No													H ₂ SO ₄ -H ₂ NaOH-Na				
SAMPLE RECEIPT		Thermometer ID:																H ₃ PO ₄ -HP				
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:																NaHSO ₄ -NABIS				
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:																Na ₂ S ₂ O ₃ -NaSO ₃				
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:																Zn Acetate+NaOH: Zn				
Total Containers:																		NaOH+Ascorbic Acid: SAPC				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments
HA-1	S	3.6.25	12.00	3.5	Grab/1	1	X	X	X		X											Incident Number
HA-2	S	3.6.25	12.05	3	Grab/1	1	X	X	X		X											nAPP2505739485
HA-3	S	3.6.25	12.10	3	Grab/1	1	X	X	X		X											
HA-4	S	3.6.25	12.15	4.5	Grab/1	1	X	X	X		X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/2/20	<i>[Signature]</i>	<i>[Signature]</i>	4
					6

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environmant Toxins

[illegible]

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7777-1

SDG Number: Eddy County, NM

Login Number: 7777

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7777-1

SDG Number: Eddy County, NM

Login Number: 7777

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 03/06/25 08:45 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765
Generated 3/7/2025 4:13:49 PM

JOB DESCRIPTION

EOG Nelson Fed #8 (MAL-13-13)
Eddy County, NM

JOB NUMBER

890-7776-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



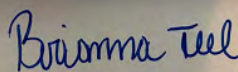
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/7/2025 4:13:49 PM

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

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Laboratory Job ID: 890-7776-1
SDG: Eddy County,NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration
Project: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1

Job ID: 890-7776-1

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Job Narrative 890-7776-1

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

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

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

Receipt

The samples were received on 3/6/2025 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-5 (890-7776-1), HA-5 (890-7776-2), HA-6 (890-7776-3), HA-6 (890-7776-4), HA-7 (890-7776-5), HA-7 (890-7776-6), HA-8 (890-7776-7) and HA-8 (890-7776-8).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-5 (890-7776-2), (CCV 880-104559/33) and (890-7776-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104682 and analytical batch 880-104559 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-104682/1-A) and (LCSD 880-104682/2-A). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-5 (890-7776-2) and HA-7 (890-7776-6). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-5

Lab Sample ID: 890-7776-1

Date Collected: 03/06/25 12:20

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 20:00	03/06/25 23:11	1
Toluene	<0.00200	U F1 F2	0.00200		mg/Kg		03/06/25 20:00	03/06/25 23:11	1
Ethylbenzene	<0.00200	U F1 F2	0.00200		mg/Kg		03/06/25 20:00	03/06/25 23:11	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399		mg/Kg		03/06/25 20:00	03/06/25 23:11	1
o-Xylene	<0.00200	U F1 F2	0.00200		mg/Kg		03/06/25 20:00	03/06/25 23:11	1
Xylenes, Total	<0.00399	U F1 F2	0.00399		mg/Kg		03/06/25 20:00	03/06/25 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	03/06/25 20:00	03/06/25 23:11	1
1,4-Difluorobenzene (Surr)	71		70 - 130	03/06/25 20:00	03/06/25 23:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/07/25 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/07/25 10:57	03/07/25 11:45	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/07/25 10:57	03/07/25 11:45	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/07/25 10:57	03/07/25 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/07/25 10:57	03/07/25 11:45	1
o-Terphenyl	102		70 - 130	03/07/25 10:57	03/07/25 11:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			03/07/25 11:48	1

Client Sample ID: HA-5

Lab Sample ID: 890-7776-2

Date Collected: 03/06/25 12:25

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 21:51	03/06/25 23:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 21:51	03/06/25 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	03/06/25 21:51	03/06/25 23:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-5

Lab Sample ID: 890-7776-2

Date Collected: 03/06/25 12:25

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76		70 - 130	03/06/25 21:51	03/06/25 23:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 02:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 02:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				03/06/25 19:59	03/07/25 02:22	1
o-Terphenyl	70		70 - 130				03/06/25 19:59	03/07/25 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			03/07/25 12:07	1

Client Sample ID: HA-6

Lab Sample ID: 890-7776-3

Date Collected: 03/06/25 12:30

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 21:51	03/06/25 23:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 21:51	03/06/25 23:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 21:51	03/06/25 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/06/25 21:51	03/06/25 23:52	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/06/25 21:51	03/06/25 23:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/07/25 02:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-6

Lab Sample ID: 890-7776-3

Date Collected: 03/06/25 12:30

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 02:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 02:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				03/06/25 19:59	03/07/25 02:37	1
o-Terphenyl	77		70 - 130				03/06/25 19:59	03/07/25 02:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			03/07/25 12:13	1

Client Sample ID: HA-6

Lab Sample ID: 890-7776-4

Date Collected: 03/06/25 12:35

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 21:51	03/07/25 00:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 21:51	03/07/25 00:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 21:51	03/07/25 00:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 21:51	03/07/25 00:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 21:51	03/07/25 00:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 21:51	03/07/25 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				03/06/25 21:51	03/07/25 00:12	1
1,4-Difluorobenzene (Surr)	81		70 - 130				03/06/25 21:51	03/07/25 00:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/25 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 02:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 02:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 02:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				03/06/25 19:59	03/07/25 02:52	1
o-Terphenyl	74		70 - 130				03/06/25 19:59	03/07/25 02:52	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-6

Lab Sample ID: 890-7776-4

Date Collected: 03/06/25 12:35

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			03/07/25 12:19	1

Client Sample ID: HA-7

Lab Sample ID: 890-7776-5

Date Collected: 03/06/25 12:40

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 00:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 00:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 00:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 21:51	03/07/25 00:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 00:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 21:51	03/07/25 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				03/06/25 21:51	03/07/25 00:33	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/06/25 21:51	03/07/25 00:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/07/25 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/07/25 03:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 03:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 03:07	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 19:59	03/07/25 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				03/06/25 19:59	03/07/25 03:07	1
o-Terphenyl	74		70 - 130				03/06/25 19:59	03/07/25 03:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			03/07/25 12:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-7

Lab Sample ID: 890-7776-6

Date Collected: 03/06/25 12:45

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 00:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 00:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 00:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 21:51	03/07/25 00:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 00:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 21:51	03/07/25 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	03/06/25 21:51	03/07/25 00:53	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/06/25 21:51	03/07/25 00:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/07/25 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/25 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 19:59	03/07/25 03:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 19:59	03/07/25 03:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 19:59	03/07/25 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	03/06/25 19:59	03/07/25 03:24	1
o-Terphenyl	70		70 - 130	03/06/25 19:59	03/07/25 03:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/07/25 12:31	1

Client Sample ID: HA-8

Lab Sample ID: 890-7776-7

Date Collected: 03/06/25 12:50

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 01:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 01:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 01:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 21:51	03/07/25 01:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/07/25 01:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 21:51	03/07/25 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	03/06/25 21:51	03/07/25 01:14	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-8

Lab Sample ID: 890-7776-7

Date Collected: 03/06/25 12:50

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	03/06/25 21:51	03/07/25 01:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/25 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 03:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 03:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:59	03/07/25 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				03/06/25 19:59	03/07/25 03:39	1
o-Terphenyl	71		70 - 130				03/06/25 19:59	03/07/25 03:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			03/07/25 12:37	1

Client Sample ID: HA-8

Lab Sample ID: 890-7776-8

Date Collected: 03/06/25 12:55

Matrix: Solid

Date Received: 03/06/25 15:12

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 01:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 01:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 01:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 21:51	03/07/25 01:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 21:51	03/07/25 01:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 21:51	03/07/25 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	03/06/25 21:51	03/07/25 01:34	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/06/25 21:51	03/07/25 01:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/25 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/25 04:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-8
Date Collected: 03/06/25 12:55
Date Received: 03/06/25 15:12
Sample Depth: 1

Lab Sample ID: 890-7776-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:59	03/07/25 04:10	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:59	03/07/25 04:10	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:59	03/07/25 04:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	72		70 - 130				03/06/25 19:59	03/07/25 04:10	1	
o-Terphenyl	73		70 - 130				03/06/25 19:59	03/07/25 04:10	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<9.90	U	9.90		mg/Kg			03/07/25 12:43	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7776-1	HA-5	122	71
890-7776-1 MS	HA-5	19 S1-	91
890-7776-1 MSD	HA-5	136 S1+	81
890-7776-2	HA-5	135 S1+	76
890-7776-3	HA-6	121	83
890-7776-4	HA-6	128	81
890-7776-5	HA-7	125	84
890-7776-6	HA-7	129	80
890-7776-7	HA-8	129	83
890-7776-8	HA-8	129	80
LCS 880-104682/1-A	Lab Control Sample	137 S1+	94
LCSD 880-104682/2-A	Lab Control Sample Dup	130	90
MB 880-104568/5-A	Method Blank	118	80
MB 880-104682/5-A	Method Blank	124	76
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7776-1	HA-5	114	102
890-7776-2	HA-5	69 S1-	70
890-7776-3	HA-6	75	77
890-7776-4	HA-6	72	74
890-7776-5	HA-7	73	74
890-7776-6	HA-7	68 S1-	70
890-7776-7	HA-8	70	71
890-7776-8	HA-8	72	73
LCS 880-104678/2-A	Lab Control Sample	108	107
LCS 880-104680/2-A	Lab Control Sample	79	82
LCSD 880-104678/3-A	Lab Control Sample Dup	108	106
LCSD 880-104680/3-A	Lab Control Sample Dup	77	79
MB 880-104678/1-A	Method Blank	75	78
MB 880-104680/1-A	Method Blank	107	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104568/5-A

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:23	03/06/25 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:23	03/06/25 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:23	03/06/25 11:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 09:23	03/06/25 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 09:23	03/06/25 11:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 09:23	03/06/25 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/06/25 09:23	03/06/25 11:53	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/06/25 09:23	03/06/25 11:53	1

Lab Sample ID: MB 880-104682/5-A

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104682

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/06/25 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/06/25 22:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/06/25 22:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/25 21:51	03/06/25 22:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 21:51	03/06/25 22:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/25 21:51	03/06/25 22:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	03/06/25 21:51	03/06/25 22:49	1
1,4-Difluorobenzene (Surr)	76		70 - 130	03/06/25 21:51	03/06/25 22:49	1

Lab Sample ID: LCS 880-104682/1-A

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09631		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-104682/2-A

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104682

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1085		mg/Kg		108	70 - 130	3	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

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

Lab Sample ID: LCSD 880-104682/2-A

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104682

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09634		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1992		mg/Kg		100	70 - 130	1	35
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130	1	35

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

Lab Sample ID: 890-7776-1 MS

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 104682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08264		mg/Kg		83	70 - 130
Toluene	<0.00200	U F1 F2	0.100	0.06305	F1	mg/Kg		63	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.100	0.04008	F1	mg/Kg		40	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.04501	F1	mg/Kg		23	70 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.02847	F1	mg/Kg		28	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	19	S1-	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-7776-1 MSD

Matrix: Solid

Analysis Batch: 104559

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 104682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1103		mg/Kg		110	70 - 130	29	35
Toluene	<0.00200	U F1 F2	0.100	0.1032	F2	mg/Kg		103	70 - 130	48	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.1095	F2	mg/Kg		109	70 - 130	93	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.2117	F2	mg/Kg		106	70 - 130	130	35
o-Xylene	<0.00200	U F1 F2	0.100	0.1118	F2	mg/Kg		112	70 - 130	119	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

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

Lab Sample ID: MB 880-104678/1-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:56	03/07/25 00:03	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

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

Lab Sample ID: MB 880-104678/1-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:56	03/07/25 00:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:56	03/07/25 00:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				03/06/25 19:56	03/07/25 00:03	1
o-Terphenyl	78		70 - 130				03/06/25 19:56	03/07/25 00:03	1

Lab Sample ID: LCS 880-104678/2-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
o-Terphenyl	107		70 - 130				

Lab Sample ID: LCSD 880-104678/3-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1018		mg/Kg		102	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1176		mg/Kg		118	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: MB 880-104680/1-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 01:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 01:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 01:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/06/25 19:57	03/07/25 01:15	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

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

Lab Sample ID: MB 880-104680/1-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104680

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		70 - 130	03/06/25 19:57	03/07/25 01:15	1

Lab Sample ID: LCS 880-104680/2-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1072		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	79		70 - 130
<i>o</i> -Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-104680/3-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1032		mg/Kg		103	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1001		mg/Kg		100	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
<i>o</i> -Terphenyl	79		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104671/1-A

Matrix: Solid

Analysis Batch: 104699

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/07/25 09:20	1

Lab Sample ID: LCS 880-104671/2-A

Matrix: Solid

Analysis Batch: 104699

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.0		mg/Kg		105	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-104671/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 104699											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	263.0		mg/Kg		105	90 - 110	0	20		

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

GC VOA

Analysis Batch: 104559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Total/NA	Solid	8021B	104682
890-7776-2	HA-5	Total/NA	Solid	8021B	104682
890-7776-3	HA-6	Total/NA	Solid	8021B	104682
890-7776-4	HA-6	Total/NA	Solid	8021B	104682
890-7776-5	HA-7	Total/NA	Solid	8021B	104682
890-7776-6	HA-7	Total/NA	Solid	8021B	104682
890-7776-7	HA-8	Total/NA	Solid	8021B	104682
890-7776-8	HA-8	Total/NA	Solid	8021B	104682
MB 880-104568/5-A	Method Blank	Total/NA	Solid	8021B	104568
MB 880-104682/5-A	Method Blank	Total/NA	Solid	8021B	104682
LCS 880-104682/1-A	Lab Control Sample	Total/NA	Solid	8021B	104682
LCSD 880-104682/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104682
890-7776-1 MS	HA-5	Total/NA	Solid	8021B	104682
890-7776-1 MSD	HA-5	Total/NA	Solid	8021B	104682

Prep Batch: 104568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104568/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 104682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Total/NA	Solid	5035	
890-7776-2	HA-5	Total/NA	Solid	5035	
890-7776-3	HA-6	Total/NA	Solid	5035	
890-7776-4	HA-6	Total/NA	Solid	5035	
890-7776-5	HA-7	Total/NA	Solid	5035	
890-7776-6	HA-7	Total/NA	Solid	5035	
890-7776-7	HA-8	Total/NA	Solid	5035	
890-7776-8	HA-8	Total/NA	Solid	5035	
MB 880-104682/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104682/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104682/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7776-1 MS	HA-5	Total/NA	Solid	5035	
890-7776-1 MSD	HA-5	Total/NA	Solid	5035	

Analysis Batch: 104730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Total/NA	Solid	Total BTEX	
890-7776-2	HA-5	Total/NA	Solid	Total BTEX	
890-7776-3	HA-6	Total/NA	Solid	Total BTEX	
890-7776-4	HA-6	Total/NA	Solid	Total BTEX	
890-7776-5	HA-7	Total/NA	Solid	Total BTEX	
890-7776-6	HA-7	Total/NA	Solid	Total BTEX	
890-7776-7	HA-8	Total/NA	Solid	Total BTEX	
890-7776-8	HA-8	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 104596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-2	HA-5	Total/NA	Solid	8015B NM	104678

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

GC Semi VOA (Continued)

Analysis Batch: 104596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-3	HA-6	Total/NA	Solid	8015B NM	104678
890-7776-4	HA-6	Total/NA	Solid	8015B NM	104678
890-7776-5	HA-7	Total/NA	Solid	8015B NM	104678
890-7776-6	HA-7	Total/NA	Solid	8015B NM	104678
890-7776-7	HA-8	Total/NA	Solid	8015B NM	104678
890-7776-8	HA-8	Total/NA	Solid	8015B NM	104678
MB 880-104678/1-A	Method Blank	Total/NA	Solid	8015B NM	104678
LCS 880-104678/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104678
LCSD 880-104678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104678

Analysis Batch: 104612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Total/NA	Solid	8015B NM	104680
MB 880-104680/1-A	Method Blank	Total/NA	Solid	8015B NM	104680
LCS 880-104680/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104680
LCSD 880-104680/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104680

Prep Batch: 104678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-2	HA-5	Total/NA	Solid	8015NM Prep	
890-7776-3	HA-6	Total/NA	Solid	8015NM Prep	
890-7776-4	HA-6	Total/NA	Solid	8015NM Prep	
890-7776-5	HA-7	Total/NA	Solid	8015NM Prep	
890-7776-6	HA-7	Total/NA	Solid	8015NM Prep	
890-7776-7	HA-8	Total/NA	Solid	8015NM Prep	
890-7776-8	HA-8	Total/NA	Solid	8015NM Prep	
MB 880-104678/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104678/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 104680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Total/NA	Solid	8015NM Prep	
MB 880-104680/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104680/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104680/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Total/NA	Solid	8015 NM	
890-7776-2	HA-5	Total/NA	Solid	8015 NM	
890-7776-3	HA-6	Total/NA	Solid	8015 NM	
890-7776-4	HA-6	Total/NA	Solid	8015 NM	
890-7776-5	HA-7	Total/NA	Solid	8015 NM	
890-7776-6	HA-7	Total/NA	Solid	8015 NM	
890-7776-7	HA-8	Total/NA	Solid	8015 NM	
890-7776-8	HA-8	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

HPLC/IC

Leach Batch: 104671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Soluble	Solid	DI Leach	
890-7776-2	HA-5	Soluble	Solid	DI Leach	
890-7776-3	HA-6	Soluble	Solid	DI Leach	
890-7776-4	HA-6	Soluble	Solid	DI Leach	
890-7776-5	HA-7	Soluble	Solid	DI Leach	
890-7776-6	HA-7	Soluble	Solid	DI Leach	
890-7776-7	HA-8	Soluble	Solid	DI Leach	
890-7776-8	HA-8	Soluble	Solid	DI Leach	
MB 880-104671/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104671/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104671/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 104699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7776-1	HA-5	Soluble	Solid	300.0	104671
890-7776-2	HA-5	Soluble	Solid	300.0	104671
890-7776-3	HA-6	Soluble	Solid	300.0	104671
890-7776-4	HA-6	Soluble	Solid	300.0	104671
890-7776-5	HA-7	Soluble	Solid	300.0	104671
890-7776-6	HA-7	Soluble	Solid	300.0	104671
890-7776-7	HA-8	Soluble	Solid	300.0	104671
890-7776-8	HA-8	Soluble	Solid	300.0	104671
MB 880-104671/1-A	Method Blank	Soluble	Solid	300.0	104671
LCS 880-104671/2-A	Lab Control Sample	Soluble	Solid	300.0	104671
LCSD 880-104671/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104671

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-5

Lab Sample ID: 890-7776-1

Date Collected: 03/06/25 12:20

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104682	03/06/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/06/25 23:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/06/25 23:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 11:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	104680	03/07/25 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104612	03/07/25 11:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 11:48	CH	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-7776-2

Date Collected: 03/06/25 12:25

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/06/25 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/06/25 23:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 02:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 02:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:07	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7776-3

Date Collected: 03/06/25 12:30

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/06/25 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/06/25 23:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 02:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 02:37	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:13	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7776-4

Date Collected: 03/06/25 12:35

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/07/25 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/07/25 00:12	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-6

Lab Sample ID: 890-7776-4

Date Collected: 03/06/25 12:35

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			104755	03/07/25 02:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 02:52	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:19	CH	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7776-5

Date Collected: 03/06/25 12:40

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/07/25 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/07/25 00:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 03:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 03:07	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:25	CH	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7776-6

Date Collected: 03/06/25 12:45

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/07/25 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/07/25 00:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 03:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 03:24	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:31	CH	EET MID

Client Sample ID: HA-8

Lab Sample ID: 890-7776-7

Date Collected: 03/06/25 12:50

Matrix: Solid

Date Received: 03/06/25 15:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/07/25 01:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/07/25 01:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 03:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 03:39	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Client Sample ID: HA-8
Date Collected: 03/06/25 12:50
Date Received: 03/06/25 15:12

Lab Sample ID: 890-7776-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:37	CH	EET MID

Client Sample ID: HA-8
Date Collected: 03/06/25 12:55
Date Received: 03/06/25 15:12

Lab Sample ID: 890-7776-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104682	03/06/25 21:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104559	03/07/25 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104730	03/07/25 01:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104755	03/07/25 04:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104678	03/06/25 19:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104596	03/07/25 04:10	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104671	03/06/25 17:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104699	03/07/25 12:43	CH	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7776-1
SDG: Eddy County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7776-1	HA-5	Solid	03/06/25 12:20	03/06/25 15:12	0.5
890-7776-2	HA-5	Solid	03/06/25 12:25	03/06/25 15:12	1
890-7776-3	HA-6	Solid	03/06/25 12:30	03/06/25 15:12	0.5
890-7776-4	HA-6	Solid	03/06/25 12:35	03/06/25 15:12	1
890-7776-5	HA-7	Solid	03/06/25 12:40	03/06/25 15:12	0.5
890-7776-6	HA-7	Solid	03/06/25 12:45	03/06/25 15:12	1
890-7776-7	HA-8	Solid	03/06/25 12:50	03/06/25 15:12	0.5
890-7776-8	HA-8	Solid	03/06/25 12:55	03/06/25 15:12	1

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Environment Testing
Xenco

Chain of Custody

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



890-7776 Chain of Custody

www.xenco.com

Page 1 of 1

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

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

Project Name:	EOG Nelson Fed #8 (MAL-13-13)	Turn Around		ANALYSIS REQUEST																Preservative Codes				
Project Number:	2296	☐ Routine	☒ Rush	Pres. Code																	None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, NM	Due Date:	24 HR Rush TAT																		Coat: Cool	MeOH: Me		
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm																			HCL: HC	HNO ₃ : HN		
POWOW #:																					H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	☒ Yes	☐ No	Wet Ice:	☒ Yes	☐ No																	H ₃ PO ₄ : HP	
Samples Received Intact:	Thermometer ID:	☒ Yes	☐ No																		NaHSO ₄ : NABIS			
Cooler Custody Seals:	Correction Factor:	☒ Yes	☐ No																		Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Temperature Reading:	☒ Yes	☐ No																		Zn Acetate+NaOH: Zn			
Total Containers:	Corrected Temperature:	1.2																			NaOH+Ascorbic Acid: SAPC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments	Incident Number	
HA-5	S	3.6.25	12:20	0.5	Grab/	1	X	X	X		X												nAPP2505739485	
HA-5	S	3.6.25	12:25	1	Grab/	1	X	X	X		X													
HA-6	S	3.6.25	12:30	0.5	Grab/	1	X	X	X		X													
HA-6	S	3.6.25	12:35	1	Grab/	1	X	X	X		X													
HA-7	S	3.6.25	12:40	0.5	Grab/	1	X	X	X		X													
HA-7	S	3.6.25	12:45	1	Grab/	1	X	X	X		X													
HA-8	S	3.6.25	12:50	0.5	Grab/	1	X	X	X		X													
HA-8	S	3.6.25	12:55	1	Grab/	1	X	X	X		X													

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

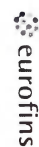
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5-12-24			

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Sampler: N/A	Lab PM: Teel, Brianna	Carrier Tracking No(s): N/A	COC No: 890-4696-1										
Client Contact: Shipping/Receiving				Phone: N/A	E-Mail: Brianna.Teel@et.eurofins.com	State of Origin: New Mexico	Page: 1 of 1										
Company: Eurofins Environment Testing South Cent				Accreditations Required (See note): NE LAP - Texas		Job #: 890-7776-1	Preservation Codes:										
Address: 1211 W. Florida Ave.				Due Date Requested: 3/7/2025	Analysis Requested												
City: Midland				TAT Requested (days): N/A													
State, Zip: TX, 79701				PO #: N/A													
Phone: 432-704-5440(Tel)				WO #: N/A													
Email: N/A				Project #: 88002337													
Project Name: EOG NELSON FED				SSOW#: N/A													
Site: N/A																	
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (If water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep TPH 8015	8015MOD_Calc/ 8015 Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FFP_Calc (MOD) BTEX	Total_BTEX_GCV/ (MOD) Total BTEX	Total Number of containers	Special Instructions/Note:	
HA-5 (890-7776-1)				3/6/25	12:20	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-5 (890-7776-2)				3/6/25	12:25	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-6 (890-7776-3)				3/6/25	12:30	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-6 (890-7776-4)				3/6/25	12:35	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-7 (890-7776-5)				3/6/25	12:40	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-7 (890-7776-6)				3/6/25	12:45	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-8 (890-7776-7)				3/6/25	12:50	Mountain	G	Solid	X	X	X	X	X	X	X	1	
HA-8 (890-7776-8)				3/6/25	12:55	Mountain	G	Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																	
Possible Hazard Identification																	
Unconfirmed																	
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months																	
Special Instructions/QC Requirements:																	
Empty Kit Relinquished by: Date: Time: Method of Shipment:																	
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																	
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																	
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:																	
Δ Yes Δ No																	

Eurofins Carlsbad

**1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199**

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sampler:	N/A
Client Contact:						Lab PM:	Teeb, Brianna
Shipping/Receiving						E-Mail:	Brianna.Tee@et.eurofinsus.com
Company:						Phone:	N/A
Eurofins Environment Testing South Central						Accreditations Required (See note):	NE LAP - Texas
Address:						COC No:	890-4695.2
1211 W. Florida Ave.						State of Origin:	New Mexico
City:						Page:	Page 2 of 2
Midland						Job #:	890-7775-1
State, Zip: TX, 79701						Preservation Codes:	
Phone: 432-704-5440(Tel)							
Email: N/A							
Project Name: TALCO STATE FEDERAL COM # 222 H							
Site: SSOW#							
Matrix Type (Water, Soil, Sludge, etc.)							
Sample Identification - Client ID (Lab ID)						Special Instructions/Note:	
Sample Date						Field Filtered Sample (Yes or No)	
Sample Time						Perform MS/MSD (Yes or No)	
Sample Type (C=Comp, G=Grab) Preservation Code:						8015MOD_NM/8015NM_S_Prep TPH 8015	
CS - 10 (890-7775-10)						8015MOD_Calc/ 8015 Calc	
CS - 11 (890-7775-11)						300_ORGFM_28D/DI_LEACH Chloride	
SW - 1 (890-7775-12)						8021B/5035FP_Calc (MOD) BTEX	
SW - 2 (890-7775-13)						Total_BTEX_GCV/ (MOD) Total BTEX	
SW - 3 (890-7775-14)							
SW - 4 (890-7775-15)							
Total Number of containers							
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.							
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV, Other (Specify)						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Primary Deliverable Rank: 2						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by:						Method of Shipment:	
Relinquished by:						Received by:	
Date/Time:						Date/Time:	
Relinquished by:						Received by:	
Date/Time:						Date/Time:	
Cooler Temperature(s) °C and Other Remarks:							

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7776-1

SDG Number: Eddy County,NM

Login Number: 7776

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7776-1

SDG Number: Eddy County,NM

Login Number: 7776

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 03/06/25 08:45 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/20/2025 3:05:30 PM

JOB DESCRIPTION

EOG Nelson Fed #8 - (MAL-13 -13)
Eddy, NM

JOB NUMBER

890-7832-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



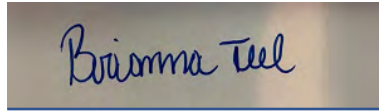
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/20/2025 3:05:30 PM

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

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Laboratory Job ID: 890-7832-1
SDG: Eddy, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration
Project: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1

Job ID: 890-7832-1

Eurofins Carlsbad

Job Narrative 890-7832-1

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

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

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

Receipt

The samples were received on 3/19/2025 2:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 1 (890-7832-1), HA - 2 (890-7832-2), HA - 2 (890-7832-3), HA - 3 (890-7832-4), HA - 3 (890-7832-5), HA - 3 (890-7832-6), HA - 4 (890-7832-7), HA - 4 (890-7832-8) and HA - 4 (890-7832-9).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-105620 and analytical batch 880-105636 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA - 1 (890-7832-1), HA - 2 (890-7832-2), HA - 2 (890-7832-3), HA - 3 (890-7832-4), HA - 3 (890-7832-5), HA - 3 (890-7832-6), HA - 4 (890-7832-7), HA - 4 (890-7832-8), HA - 4 (890-7832-9), (LCS 880-105620/2-A), (LCSD 880-105620/3-A), (890-7832-A-1-C MS) and (890-7832-A-1-D MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-7832-1

Date Collected: 03/19/25 09:40

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/20/25 09:18	03/20/25 12:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/20/25 09:18	03/20/25 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/20/25 09:18	03/20/25 12:13	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/20/25 09:18	03/20/25 12:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/20/25 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/25 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 10:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130	03/20/25 08:21	03/20/25 10:15	1
o-Terphenyl	186	S1+	70 - 130	03/20/25 08:21	03/20/25 10:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.0		9.94		mg/Kg			03/20/25 10:27	1

Client Sample ID: HA - 2

Lab Sample ID: 890-7832-2

Date Collected: 03/19/25 09:50

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/20/25 09:18	03/20/25 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/20/25 09:18	03/20/25 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/20/25 09:18	03/20/25 12:34	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-7832-2

Date Collected: 03/19/25 09:50

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	03/20/25 09:18	03/20/25 12:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/20/25 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/20/25 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/20/25 08:21	03/20/25 10:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/20/25 08:21	03/20/25 10:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/20/25 08:21	03/20/25 10:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130				03/20/25 08:21	03/20/25 10:59	1
o-Terphenyl	181	S1+	70 - 130				03/20/25 08:21	03/20/25 10:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2690		49.5		mg/Kg			03/20/25 10:32	5

Client Sample ID: HA - 2

Lab Sample ID: 890-7832-3

Date Collected: 03/19/25 10:00

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/20/25 09:18	03/20/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 12:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/20/25 09:18	03/20/25 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/20/25 09:18	03/20/25 12:54	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/20/25 09:18	03/20/25 12:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/20/25 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/25 11:14	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-7832-3

Date Collected: 03/19/25 10:00

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/25 08:21	03/20/25 11:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/25 08:21	03/20/25 11:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/25 08:21	03/20/25 11:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130				03/20/25 08:21	03/20/25 11:14	1
o-Terphenyl	185	S1+	70 - 130				03/20/25 08:21	03/20/25 11:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.7		10.0		mg/Kg			03/20/25 10:38	1

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-4

Date Collected: 03/19/25 10:10

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		03/20/25 09:18	03/20/25 13:42	10
Toluene	0.374		0.0199		mg/Kg		03/20/25 09:18	03/20/25 13:42	10
Ethylbenzene	0.436		0.0199		mg/Kg		03/20/25 09:18	03/20/25 13:42	10
m-Xylene & p-Xylene	0.509		0.0398		mg/Kg		03/20/25 09:18	03/20/25 13:42	10
o-Xylene	0.228		0.0199		mg/Kg		03/20/25 09:18	03/20/25 13:42	10
Xylenes, Total	0.737		0.0398		mg/Kg		03/20/25 09:18	03/20/25 13:42	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/20/25 09:18	03/20/25 13:42	10
1,4-Difluorobenzene (Surr)	104		70 - 130				03/20/25 09:18	03/20/25 13:42	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.55		0.0398		mg/Kg			03/20/25 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1300		50.0		mg/Kg			03/20/25 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	225		50.0		mg/Kg		03/20/25 08:21	03/20/25 11:29	1
Diesel Range Organics (Over C10-C28)	1070		50.0		mg/Kg		03/20/25 08:21	03/20/25 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	195	S1+	70 - 130				03/20/25 08:21	03/20/25 11:29	1
o-Terphenyl	211	S1+	70 - 130				03/20/25 08:21	03/20/25 11:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-4

Date Collected: 03/19/25 10:10

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	305		10.1		mg/Kg			03/20/25 10:44	1

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-5

Date Collected: 03/19/25 10:20

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:18	03/20/25 13:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:18	03/20/25 13:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:18	03/20/25 13:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/20/25 09:18	03/20/25 13:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:18	03/20/25 13:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/20/25 09:18	03/20/25 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				03/20/25 09:18	03/20/25 13:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/20/25 09:18	03/20/25 13:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/20/25 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/25 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 11:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 11:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	177	S1+	70 - 130				03/20/25 08:21	03/20/25 11:44	1
o-Terphenyl	182	S1+	70 - 130				03/20/25 08:21	03/20/25 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		9.92		mg/Kg			03/20/25 10:50	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-6

Date Collected: 03/19/25 10:30

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/20/25 09:19	03/20/25 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/20/25 09:19	03/20/25 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/20/25 09:19	03/20/25 12:20	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/20/25 09:19	03/20/25 12:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/20/25 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/20/25 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/25 08:21	03/20/25 11:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/25 08:21	03/20/25 11:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/25 08:21	03/20/25 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	181	S1+	70 - 130	03/20/25 08:21	03/20/25 11:58	1
o-Terphenyl	184	S1+	70 - 130	03/20/25 08:21	03/20/25 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.4		10.0		mg/Kg			03/20/25 10:56	1

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-7

Date Collected: 03/19/25 10:40

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/20/25 09:19	03/20/25 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 12:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/20/25 09:19	03/20/25 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/20/25 09:19	03/20/25 12:40	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-7

Date Collected: 03/19/25 10:40

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	03/20/25 09:19	03/20/25 12:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/20/25 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/20/25 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/20/25 08:21	03/20/25 12:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/20/25 08:21	03/20/25 12:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/20/25 08:21	03/20/25 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130				03/20/25 08:21	03/20/25 12:15	1
o-Terphenyl	181	S1+	70 - 130				03/20/25 08:21	03/20/25 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8870		101		mg/Kg			03/20/25 11:13	10

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-8

Date Collected: 03/19/25 10:50

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 13:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 13:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 13:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/20/25 09:19	03/20/25 13:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 13:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/20/25 09:19	03/20/25 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/20/25 09:19	03/20/25 13:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/20/25 09:19	03/20/25 13:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/20/25 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/20/25 12:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-8

Date Collected: 03/19/25 10:50

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/20/25 08:21	03/20/25 12:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/20/25 08:21	03/20/25 12:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/20/25 08:21	03/20/25 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	177	S1+	70 - 130				03/20/25 08:21	03/20/25 12:29	1
o-Terphenyl	182	S1+	70 - 130				03/20/25 08:21	03/20/25 12:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	449		9.94		mg/Kg			03/20/25 11:19	1

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-9

Date Collected: 03/19/25 11:00

Matrix: Solid

Date Received: 03/19/25 14:01

Sample Depth: 9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:19	03/20/25 13:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:19	03/20/25 13:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:19	03/20/25 13:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/20/25 09:19	03/20/25 13:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/20/25 09:19	03/20/25 13:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/20/25 09:19	03/20/25 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				03/20/25 09:19	03/20/25 13:21	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/20/25 09:19	03/20/25 13:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/20/25 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/25 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 12:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 12:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130				03/20/25 08:21	03/20/25 12:43	1
o-Terphenyl	185	S1+	70 - 130				03/20/25 08:21	03/20/25 12:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 4
Date Collected: 03/19/25 11:00
Date Received: 03/19/25 14:01
Sample Depth: 9

Lab Sample ID: 890-7832-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.0		9.98		mg/Kg			03/20/25 11:36	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7832-1	HA - 1	93	92
890-7832-1 MS	HA - 1	105	90
890-7832-1 MSD	HA - 1	101	102
890-7832-2	HA - 2	106	82
890-7832-3	HA - 2	101	94
890-7832-4	HA - 3	113	104
890-7832-5	HA - 3	95	92
890-7832-6	HA - 3	105	87
890-7832-6 MS	HA - 3	101	91
890-7832-6 MSD	HA - 3	103	89
890-7832-7	HA - 4	105	87
890-7832-8	HA - 4	101	94
890-7832-9	HA - 4	97	89
LCS 880-105642/1-A	Lab Control Sample	102	95
LCS 880-105643/1-A	Lab Control Sample	99	100
LCSD 880-105642/2-A	Lab Control Sample Dup	100	92
LCSD 880-105643/2-A	Lab Control Sample Dup	100	99
MB 880-105642/5-A	Method Blank	93	89
MB 880-105643/5-A	Method Blank	90	80
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7832-1	HA - 1	182 S1+	186 S1+
890-7832-1 MS	HA - 1	184 S1+	181 S1+
890-7832-1 MSD	HA - 1	186 S1+	181 S1+
890-7832-2	HA - 2	176 S1+	181 S1+
890-7832-3	HA - 2	182 S1+	185 S1+
890-7832-4	HA - 3	195 S1+	211 S1+
890-7832-5	HA - 3	177 S1+	182 S1+
890-7832-6	HA - 3	181 S1+	184 S1+
890-7832-7	HA - 4	174 S1+	181 S1+
890-7832-8	HA - 4	177 S1+	182 S1+
890-7832-9	HA - 4	182 S1+	185 S1+
LCS 880-105620/2-A	Lab Control Sample	135 S1+	137 S1+
LCSD 880-105620/3-A	Lab Control Sample Dup	136 S1+	135 S1+
MB 880-105620/1-A	Method Blank	175 S1+	184 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-105642/5-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/20/25 09:18	03/20/25 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:18	03/20/25 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/20/25 09:18	03/20/25 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/20/25 09:18	03/20/25 11:52	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/20/25 09:18	03/20/25 11:52	1

Lab Sample ID: LCS 880-105642/1-A

Matrix: Solid

Analysis Batch: 105629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09198		mg/Kg		92	70 - 130
Toluene	0.100	0.08601		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08734		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1888		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09466		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-105642/2-A

Matrix: Solid

Analysis Batch: 105629

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105642

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09128		mg/Kg		91	70 - 130	1	35
Toluene	0.100	0.08586		mg/Kg		86	70 - 130	0	35
Ethylbenzene	0.100	0.08902		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130	1	35
o-Xylene	0.100	0.09399		mg/Kg		94	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-7832-1 MS

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 105642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09153		mg/Kg		92	70 - 130
Toluene	<0.00200	U	0.100	0.09292		mg/Kg		93	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

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

Lab Sample ID: 890-7832-1 MS

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 105642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09247		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1847		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.08863		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-7832-1 MSD

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 105642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09569		mg/Kg		96	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.09089		mg/Kg		91	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.08955		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1801		mg/Kg		90	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.08595		mg/Kg		86	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-105643/5-A

Matrix: Solid

Analysis Batch: 105629

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 11:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 11:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 11:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/20/25 09:19	03/20/25 11:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/25 09:19	03/20/25 11:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/20/25 09:19	03/20/25 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/20/25 09:19	03/20/25 11:58	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/20/25 09:19	03/20/25 11:58	1

Lab Sample ID: LCS 880-105643/1-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09020		mg/Kg		90	70 - 130
Toluene	0.100	0.08937		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08593		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1737		mg/Kg		87	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

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

Lab Sample ID: LCS 880-105643/1-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08345		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-105643/2-A

Matrix: Solid

Analysis Batch: 105632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09435		mg/Kg		94	70 - 130	5	35
Toluene	0.100	0.09146		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.08733		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1772		mg/Kg		89	70 - 130	2	35
o-Xylene	0.100	0.08528		mg/Kg		85	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7832-6 MS

Matrix: Solid

Analysis Batch: 105629

Client Sample ID: HA - 3

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08082		mg/Kg		81	70 - 130
Toluene	<0.00200	U	0.100	0.07717		mg/Kg		77	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07830		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1677		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U	0.100	0.08457		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-7832-6 MSD

Matrix: Solid

Analysis Batch: 105629

Client Sample ID: HA - 3

Prep Type: Total/NA

Prep Batch: 105643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07887		mg/Kg		79	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07715		mg/Kg		77	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.07893		mg/Kg		79	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1707		mg/Kg		85	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.08576		mg/Kg		86	70 - 130	1	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

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

Lab Sample ID: 890-7832-6 MSD

Matrix: Solid

Analysis Batch: 105629

Client Sample ID: HA - 3

Prep Type: Total/NA

Prep Batch: 105643

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-105620/1-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105620

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 06:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 06:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/25 08:21	03/20/25 06:09	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	175	S1+	70 - 130				03/20/25 08:21	03/20/25 06:09	1
o-Terphenyl	184	S1+	70 - 130				03/20/25 08:21	03/20/25 06:09	1

Lab Sample ID: LCS 880-105620/2-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1111		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1235		mg/Kg		123	70 - 130
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
1-Chlorooctane	135	S1+	70 - 130				
o-Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-105620/3-A

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105620

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1156		mg/Kg		116	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1226		mg/Kg		123	70 - 130	1	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	136	S1+	70 - 130						
o-Terphenyl	135	S1+	70 - 130						

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

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

Lab Sample ID: 890-7832-1 MS

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 105620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1074		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1210		mg/Kg		121	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	184	S1+	70 - 130						
o-Terphenyl	181	S1+	70 - 130						

Lab Sample ID: 890-7832-1 MSD

Matrix: Solid

Analysis Batch: 105636

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 105620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1101		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1191		mg/Kg		119	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	186	S1+	70 - 130								
o-Terphenyl	181	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105619/1-A

Matrix: Solid

Analysis Batch: 105622

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/20/25 09:18	1

Lab Sample ID: LCS 880-105619/2-A

Matrix: Solid

Analysis Batch: 105622

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.7		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-105619/3-A

Matrix: Solid

Analysis Batch: 105622

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.5		mg/Kg		97	90 - 110	2	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7832-6 MS											Client Sample ID: HA - 3		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 105622													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	74.4		251	340.3		mg/Kg		106	90 - 110				

Lab Sample ID: 890-7832-6 MSD											Client Sample ID: HA - 3		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 105622													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	74.4		251	331.8		mg/Kg		103	90 - 110	3	20		

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

GC VOA

Analysis Batch: 105629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-4	HA - 3	Total/NA	Solid	8021B	105642
890-7832-6	HA - 3	Total/NA	Solid	8021B	105643
890-7832-7	HA - 4	Total/NA	Solid	8021B	105643
890-7832-8	HA - 4	Total/NA	Solid	8021B	105643
890-7832-9	HA - 4	Total/NA	Solid	8021B	105643
MB 880-105643/5-A	Method Blank	Total/NA	Solid	8021B	105643
LCS 880-105642/1-A	Lab Control Sample	Total/NA	Solid	8021B	105642
LCSD 880-105642/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105642
890-7832-6 MS	HA - 3	Total/NA	Solid	8021B	105643
890-7832-6 MSD	HA - 3	Total/NA	Solid	8021B	105643

Analysis Batch: 105632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Total/NA	Solid	8021B	105642
890-7832-2	HA - 2	Total/NA	Solid	8021B	105642
890-7832-3	HA - 2	Total/NA	Solid	8021B	105642
890-7832-5	HA - 3	Total/NA	Solid	8021B	105642
MB 880-105642/5-A	Method Blank	Total/NA	Solid	8021B	105642
LCS 880-105643/1-A	Lab Control Sample	Total/NA	Solid	8021B	105643
LCSD 880-105643/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105643
890-7832-1 MS	HA - 1	Total/NA	Solid	8021B	105642
890-7832-1 MSD	HA - 1	Total/NA	Solid	8021B	105642

Prep Batch: 105642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Total/NA	Solid	5035	
890-7832-2	HA - 2	Total/NA	Solid	5035	
890-7832-3	HA - 2	Total/NA	Solid	5035	
890-7832-4	HA - 3	Total/NA	Solid	5035	
890-7832-5	HA - 3	Total/NA	Solid	5035	
MB 880-105642/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105642/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105642/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7832-1 MS	HA - 1	Total/NA	Solid	5035	
890-7832-1 MSD	HA - 1	Total/NA	Solid	5035	

Prep Batch: 105643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-6	HA - 3	Total/NA	Solid	5035	
890-7832-7	HA - 4	Total/NA	Solid	5035	
890-7832-8	HA - 4	Total/NA	Solid	5035	
890-7832-9	HA - 4	Total/NA	Solid	5035	
MB 880-105643/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105643/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105643/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7832-6 MS	HA - 3	Total/NA	Solid	5035	
890-7832-6 MSD	HA - 3	Total/NA	Solid	5035	

Analysis Batch: 105690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

GC VOA (Continued)

Analysis Batch: 105690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-2	HA - 2	Total/NA	Solid	Total BTEX	
890-7832-3	HA - 2	Total/NA	Solid	Total BTEX	
890-7832-4	HA - 3	Total/NA	Solid	Total BTEX	
890-7832-5	HA - 3	Total/NA	Solid	Total BTEX	
890-7832-6	HA - 3	Total/NA	Solid	Total BTEX	
890-7832-7	HA - 4	Total/NA	Solid	Total BTEX	
890-7832-8	HA - 4	Total/NA	Solid	Total BTEX	
890-7832-9	HA - 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 105620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Total/NA	Solid	8015NM Prep	
890-7832-2	HA - 2	Total/NA	Solid	8015NM Prep	
890-7832-3	HA - 2	Total/NA	Solid	8015NM Prep	
890-7832-4	HA - 3	Total/NA	Solid	8015NM Prep	
890-7832-5	HA - 3	Total/NA	Solid	8015NM Prep	
890-7832-6	HA - 3	Total/NA	Solid	8015NM Prep	
890-7832-7	HA - 4	Total/NA	Solid	8015NM Prep	
890-7832-8	HA - 4	Total/NA	Solid	8015NM Prep	
890-7832-9	HA - 4	Total/NA	Solid	8015NM Prep	
MB 880-105620/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105620/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105620/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7832-1 MS	HA - 1	Total/NA	Solid	8015NM Prep	
890-7832-1 MSD	HA - 1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Total/NA	Solid	8015B NM	105620
890-7832-2	HA - 2	Total/NA	Solid	8015B NM	105620
890-7832-3	HA - 2	Total/NA	Solid	8015B NM	105620
890-7832-4	HA - 3	Total/NA	Solid	8015B NM	105620
890-7832-5	HA - 3	Total/NA	Solid	8015B NM	105620
890-7832-6	HA - 3	Total/NA	Solid	8015B NM	105620
890-7832-7	HA - 4	Total/NA	Solid	8015B NM	105620
890-7832-8	HA - 4	Total/NA	Solid	8015B NM	105620
890-7832-9	HA - 4	Total/NA	Solid	8015B NM	105620
MB 880-105620/1-A	Method Blank	Total/NA	Solid	8015B NM	105620
LCS 880-105620/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105620
LCSD 880-105620/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105620
890-7832-1 MS	HA - 1	Total/NA	Solid	8015B NM	105620
890-7832-1 MSD	HA - 1	Total/NA	Solid	8015B NM	105620

Analysis Batch: 105686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Total/NA	Solid	8015 NM	
890-7832-2	HA - 2	Total/NA	Solid	8015 NM	
890-7832-3	HA - 2	Total/NA	Solid	8015 NM	
890-7832-4	HA - 3	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

GC Semi VOA (Continued)

Analysis Batch: 105686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-5	HA - 3	Total/NA	Solid	8015 NM	
890-7832-6	HA - 3	Total/NA	Solid	8015 NM	
890-7832-7	HA - 4	Total/NA	Solid	8015 NM	
890-7832-8	HA - 4	Total/NA	Solid	8015 NM	
890-7832-9	HA - 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 105619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Soluble	Solid	DI Leach	
890-7832-2	HA - 2	Soluble	Solid	DI Leach	
890-7832-3	HA - 2	Soluble	Solid	DI Leach	
890-7832-4	HA - 3	Soluble	Solid	DI Leach	
890-7832-5	HA - 3	Soluble	Solid	DI Leach	
890-7832-6	HA - 3	Soluble	Solid	DI Leach	
890-7832-7	HA - 4	Soluble	Solid	DI Leach	
890-7832-8	HA - 4	Soluble	Solid	DI Leach	
890-7832-9	HA - 4	Soluble	Solid	DI Leach	
MB 880-105619/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105619/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105619/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7832-6 MS	HA - 3	Soluble	Solid	DI Leach	
890-7832-6 MSD	HA - 3	Soluble	Solid	DI Leach	

Analysis Batch: 105622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7832-1	HA - 1	Soluble	Solid	300.0	105619
890-7832-2	HA - 2	Soluble	Solid	300.0	105619
890-7832-3	HA - 2	Soluble	Solid	300.0	105619
890-7832-4	HA - 3	Soluble	Solid	300.0	105619
890-7832-5	HA - 3	Soluble	Solid	300.0	105619
890-7832-6	HA - 3	Soluble	Solid	300.0	105619
890-7832-7	HA - 4	Soluble	Solid	300.0	105619
890-7832-8	HA - 4	Soluble	Solid	300.0	105619
890-7832-9	HA - 4	Soluble	Solid	300.0	105619
MB 880-105619/1-A	Method Blank	Soluble	Solid	300.0	105619
LCS 880-105619/2-A	Lab Control Sample	Soluble	Solid	300.0	105619
LCSD 880-105619/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105619
890-7832-6 MS	HA - 3	Soluble	Solid	300.0	105619
890-7832-6 MSD	HA - 3	Soluble	Solid	300.0	105619

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-7832-1

Date Collected: 03/19/25 09:40

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105642	03/20/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105632	03/20/25 12:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 12:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 10:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 10:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 10:27	CH	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-7832-2

Date Collected: 03/19/25 09:50

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	105642	03/20/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105632	03/20/25 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 12:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 10:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 10:59	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105622	03/20/25 10:32	CH	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-7832-3

Date Collected: 03/19/25 10:00

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105642	03/20/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105632	03/20/25 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 11:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 11:14	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 10:38	CH	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-4

Date Collected: 03/19/25 10:10

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	105642	03/20/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	105629	03/20/25 13:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 13:42	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-4

Date Collected: 03/19/25 10:10

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			105686	03/20/25 11:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 11:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 10:44	CH	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-5

Date Collected: 03/19/25 10:20

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	105642	03/20/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105632	03/20/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 13:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 11:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 10:50	CH	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-7832-6

Date Collected: 03/19/25 10:30

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105643	03/20/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105629	03/20/25 12:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 12:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 11:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 11:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 10:56	CH	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-7

Date Collected: 03/19/25 10:40

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	105643	03/20/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105629	03/20/25 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 12:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 12:15	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-7

Date Collected: 03/19/25 10:40

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	105622	03/20/25 11:13	CH	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-8

Date Collected: 03/19/25 10:50

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105643	03/20/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105629	03/20/25 13:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 13:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 12:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 12:29	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 11:19	CH	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-7832-9

Date Collected: 03/19/25 11:00

Matrix: Solid

Date Received: 03/19/25 14:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	105643	03/20/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105629	03/20/25 13:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105690	03/20/25 13:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105686	03/20/25 12:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105620	03/20/25 08:21	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105636	03/20/25 12:43	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105619	03/20/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105622	03/20/25 11:36	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 - (MAL-13 -13)

Job ID: 890-7832-1
SDG: Eddy, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7832-1	HA - 1	Solid	03/19/25 09:40	03/19/25 14:01	5
890-7832-2	HA - 2	Solid	03/19/25 09:50	03/19/25 14:01	5
890-7832-3	HA - 2	Solid	03/19/25 10:00	03/19/25 14:01	8
890-7832-4	HA - 3	Solid	03/19/25 10:10	03/19/25 14:01	5
890-7832-5	HA - 3	Solid	03/19/25 10:20	03/19/25 14:01	8
890-7832-6	HA - 3	Solid	03/19/25 10:30	03/19/25 14:01	9
890-7832-7	HA - 4	Solid	03/19/25 10:40	03/19/25 14:01	6
890-7832-8	HA - 4	Solid	03/19/25 10:50	03/19/25 14:01	8
890-7832-9	HA - 4	Solid	03/19/25 11:00	03/19/25 14:01	9

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody

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



Environment Testing

Xenco

Work Order No:

www.xenco.com Page 1 of 1

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

Project Name: EOG Nelson Fed #8 (MAL-13-13)		Turn Around		Pres. Code	
Project Number: 49		☐ Routine ☒ Rush			
Project Location: Eddy, NM		Due Date: 24 HR Rush TAT			
Sampler's Name: Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm			
POWOW #:					

SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No	
Samples Received Intact: Yes No		Thermometer ID: 11111111			
Cooler Custody Seals: Yes No		Correction Factor: -0.2			
Sample Custody Seals: Yes No		Temperature Reading: 0.4			
Total Containers:		Corrected Temperature: 0.2			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	Parameters	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush
HA-1	S	3.19.25	9:40	5	Grab/1	1		X	X	X		X
HA-2	S	3.19.25	9:50	5	Grab/1	1		X	X	X		X
HA-2	S	3.19.25	10:00	8	Grab/1	1		X	X	X		X
HA-3	S	3.19.25	10:10	5	Grab/1	1		X	X	X		X
HA-3	S	3.19.25	10:20	8	Grab/1	1		X	X	X		X
HA-3	S	3.19.25	10:30	9	Grab/1	1		X	X	X		X
HA-4	S	3.19.25	10:40	6	Grab/1	1		X	X	X		X
HA-4	S	3.19.25	10:50	8	Grab/1	1		X	X	X		X
HA-4	S	3.19.25	11:00	9	Grab/1	1		X	X	X		X

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM		Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed									

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
------------------------------	--------------------------	-----------	--------------------------	-----------

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)			Sampler: N/A	Lab PM: Teel, Brianna	Carrier Tracking No(s): N/A	COC No: 890-4760.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brianna.Teel@et.eurofins.com	Accreditations Required (See note) NELAP - Texas		State of Origin: New Mexico	Page: Page 1 of 1
Eurofins Environment Testing South Central			Preservation Codes: 890-7832-1		Job #: 890-7832-1	
Address: 1211 W. Florida Ave.			Due Date Requested: 3/20/2025		Preservation Codes:	
City: Midland	State: TX	Zip: 79701	TAT Requested (days): N/A		Analysis Requested	
Phone: 432-704-5440(Tel)			PO #: N/A		Analysis Requested	
Email: N/A			WFO #: N/A		Analysis Requested	
Project Name: EOG NELSON FED #8 - (MAL - 13 - 13)			Project #: 88002337		Analysis Requested	
Site: N/A			SSOW#: N/A		Analysis Requested	
Sample Identification - Client ID (Lab ID)			Sample Date		Sample Time	
HA - 1 (890-7832-1)			3/19/25		09:40	
HA - 2 (890-7832-2)			3/19/25		09:50	
HA - 2 (890-7832-3)			3/19/25		10:00	
HA - 3 (890-7832-4)			3/19/25		10:10	
HA - 3 (890-7832-5)			3/19/25		10:20	
HA - 3 (890-7832-6)			3/19/25		10:30	
HA - 4 (890-7832-7)			3/19/25		10:40	
HA - 4 (890-7832-8)			3/19/25		10:50	
HA - 4 (890-7832-9)			3/19/25		11:00	
Sample Type (C=Comp, G=Grab)			Matrix (W=Water, S=Sediment, O=Organic, A=Air)		Preservation Code:	
Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep TPH 8015	
8015MOD_Calc/ 8015 Calc			300_ORGFM_28D/DI_LEACH Chloride		8021B/5035FP_Calc (MOD) BTEX	
Total_BTEX_GCV/ (MOD) Total BTEX			Total Number of containers		Special Instructions/Note:	
HA - 1 (890-7832-1)			3/19/25		09:40	
HA - 2 (890-7832-2)			3/19/25		09:50	
HA - 2 (890-7832-3)			3/19/25		10:00	
HA - 3 (890-7832-4)			3/19/25		10:10	
HA - 3 (890-7832-5)			3/19/25		10:20	
HA - 3 (890-7832-6)			3/19/25		10:30	
HA - 4 (890-7832-7)			3/19/25		10:40	
HA - 4 (890-7832-8)			3/19/25		10:50	
HA - 4 (890-7832-9)			3/19/25		11:00	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.			Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed			Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit/Retained by:			Date:		Time:	
Retained by:			Date/Time:		Company:	
Retained by:			Date/Time:		Company:	
Custody Seals Intact:			Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
A Yes A No						

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment testing

Client Information (Sub Contract Lab)										Sampler	Lab PM	Carrier Tracking No(s)		COC No																		
Client Contact:			Phone:			E-Mail:			Kramer, Jessica			N/A		890-4759.7																		
Shipping/Receiving			N/A			Jessica.Kramer@eurofins.com			State of Origin		Texas		Page 7 of 7																			
Company			Eurofins Environment Testing South Cent			Accreditations Required (See note)			NELAP - Texas		Job #		890-7831-1																			
Address:			1211 W. Florida Ave.			Due Date Requested:			3/25/2025			Preservation Codes:																				
City			Midland			TAT Requested (days):			N/A			Analysis Requested																				
State, Zip:			TX, 79701			PO #:			N/A																							
Phone:			432-704-5440(Tel)			WO #:			N/A																							
Email:			N/A			Project #:			88000222																							
Project Name:			Plains 16 State #001			SSOW#:			N/A																							
Site:			N/A			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)																							
Sample Identification - Client ID (Lab ID)			Sample Date			Sample Time			Sample Type (C=Comp, G=grab)			Matrix (W=water, S=solid, O=oil, B=trace, A=air)			Total Number of containers			Special Instructions/Note:														
H-5 (890-7831-55)			3/18/25			Central			G			Solid			X			1														
H-6 (890-7831-56)			3/18/25			Central			G			Solid			X			X			1											
H-7 (890-7831-57)			3/18/25			Central			G			Solid			X			X			1											
H-8 (890-7831-58)			3/18/25			Central			G			Solid			X			X			1											
H-9 (890-7831-59)			3/18/25			Central			G			Solid			X			X			1											
H-10 (890-7831-60)			3/18/25			Central			G			Solid			X			X			1											
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing South Central, LLC.																																
Possible Hazard Identification																																
Unconfirmed																																
Deliverable Requested: I, II, III, IV, Other (specify)																																
Primary Deliverable Rank: 2																																
Empty Kit Relinquished by:																																
Relinquished by:																																
Relinquished by:																																
Relinquished by:																																
Custody Seals Intact:																																
Custody Seal No.:																																
Δ Yes Δ No																																

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sampler		Lab PM:		COC No.													
Client Contact						N/A		Kramer, Jessica		890-4759.6													
Shipping/Receiving						Phone		E-Mail		Page													
Eurofins Environment Testing South Cent						N/A		Jessica.Kramer@et.eurofins.com		Page 6 of 7													
Address:						Due Date Requested:		Accreditations Required (See note):		Job #													
1211 W. Florida Ave.						3/25/2025		NELAP - Texas		890-7831-1													
City						TAT Requested (days):		Analysis Requested		Preservation Codes:													
Midland						N/A																	
State Zip																							
TX, 79701																							
Phone						PO #																	
432-704-5440(Tel)						N/A																	
Email:						WO #																	
N/A						N/A																	
Project Name:						Project #																	
plains 16 state #001						88000222																	
Site:						SSOW#																	
N/A						N/A																	
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Type (G=Comp, G=grab)		Matrix (Wwastewater, Solid, Overstabil.) Biotransform. A&M)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		Special Instructions/Note:					
V-10 (890-7831-46)						3/18/25		Central		G		Solid		X		X		1					
V-10 (890-7831-47)						3/18/25		Central		G		Solid		X		X		1					
V-10 (890-7831-48)						3/18/25		Central		G		Solid		X		X		1					
V-10 (890-7831-49)						3/18/25		Central		G		Solid		X		X		1					
V-10 (890-7831-50)						3/18/25		Central		G		Solid		X		X		1					
H-1 (890-7831-51)						3/18/25		Central		G		Solid		X		X		1					
H-2 (890-7831-52)						3/18/25		Central		G		Solid		X		X		1					
H-3 (890-7831-53)						3/18/25		Central		G		Solid		X		X		1					
H-4 (890-7831-54)						3/18/25		Central		G		Solid		X		X		1					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																							
Possible Hazard Identification						Unconfirmed						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2						Special Instructions/QC Requirements:											
Empty Kit Relinquished by:						Date:						Time:						Method of Shipment					
Relinquished by:						Date/Time:						Received by:						Date/Time:					
Relinquished by:						Date/Time:						Received by:						Date/Time:					
Company:						Company:						Company:						Company:					
Reinquired by:						Date/Time:						Reviewed by:						Date/Time:					
Custody Seals Intact:						Custody Seal No.:						Cooler Temperature(s) °C and Other Remarks:											
Δ Yes Δ No																							

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Sampler: N/A		Lab PM: Kramer, Jessica		COC No: 890-4739.5																					
Client Contact: Shipping/Receiving				Phone: N/A		E-Mail: Jessica.Kramer@et.eurofins.com		Page: Page 5 of 7																					
Company: Eurofins Environment Testing South Centre				Address: 1211 W. Florida Ave.		Accreditations Required (See note): NELAP - Texas		Job #: 890-7831-1																					
Due Date Requested: 3/25/2025				City: Midland		TAT Requested (days): N/A		Preservation Codes:																					
State, Zip: TX, 79701				PO #: N/A		Chloride		Other: N/A																					
Phone: 432-704-5440(Tel)				Email: N/A		8015MOD_NM/8015NM_S_Pre (MOD) Full TPH GRO-DRO-MRO																							
Project Name: plains 16 state #001				Project #: 88000222		8021B/5035FP_Calc BTEX																							
Site: N/A				SSOW#: N/A		8015MOD_Calc																							
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (free water, Spigot, Overhead, BTL-tras, A&A)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		300_ORGFM_28D/DI_LEACH		8015MOD_NM/8015NM_S_Pre (MOD) Full TPH GRO-DRO-MRO		8021B/5035FP_Calc BTEX		8015MOD_Calc		Total Number of containers		Special Instructions/Note:			
V-8 (890-7831-37)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-8 (890-7831-38)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-8 (890-7831-39)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-8 (890-7831-40)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-9 (890-7831-41)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-9 (890-7831-42)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-9 (890-7831-43)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-9 (890-7831-44)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
V-9 (890-7831-45)				3/18/25		Central		G		Solid		X		X		X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Centre, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Centre, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Centre, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Centre, LLC.																													
Possible Hazard Identification														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
Unconfirmed														☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months															
Deliverable Requested: I, II, III, IV, Other (specify)														Primary Deliverable Rank: 2															
Empty Kit Relinquished by: 														Date/Time: 8/19 1630															
Relinquished by: 														Date/Time: 															
Relinquished by: 														Date/Time: 															
Custody Seals Intact: ☐ Yes ☐ No														Custody Seal No.: 															
Cooler Temperature(s) °C and Other Remarks:																													

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	N/A	Lab PM:	Kramer, Jessica	Camera Tracking No(s):	N/A	COC No:	890-4759.4	
Client Contact:	N/A	Phone:	N/A	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	Texas	Page:	Page 4 of 7	
Shipping/Receiving:	N/A	Company:	Eurofins Environment Testing South Cent	Accreditations Required (See note):	NELAP - Texas				Job #:	890-7831-1
Address:	1211 W. Florida Ave.	Due Date Requested:	3/25/2025	Analysis Requested					Preservation Codes:	
City:	Midland	TAT Requested (days):	N/A							
State, Zip:	TX, 79701	PO #:	N/A							
Phone:	432-704-5440(Tel)	WO #:	N/A							
Email:	N/A	Project #:	88000222							
Project Name:	Plains 16 state #001	SSOW#:	N/A							
Site:	N/A	Field Filtered Sample (Yes or No)	☒							
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weir, Solid, Over-sat, Brex, A&A)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride		
V-6 (890-7831-28)		3/18/25	Central	G	Solid		☒	8015MOD_NM/8015NM_S_Pre (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	8015MOD_Calc
V-6 (890-7831-29)		3/18/25	Central	G	Solid		☒			
V-6 (890-7831-30)		3/18/25	Central	G	Solid		☒			
V-7 (890-7831-31)		3/18/25	Central	G	Solid		☒			
V-7 (890-7831-32)		3/18/25	Central	G	Solid		☒			
V-7 (890-7831-33)		3/18/25	Central	G	Solid		☒			
V-7 (890-7831-34)		3/18/25	Central	G	Solid		☒			
V-7 (890-7831-35)		3/18/25	Central	G	Solid		☒			
V-8 (890-7831-36)		3/18/25	Central	G	Solid		☒			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested: I, II, III, IV, Other (specify): Primary Deliverable Rank: 2										
Empty Kit Relinquished by: Date: Time: Method of Shipment:										
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:										
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:										
Custody Seals Intact: Δ Yes Δ No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:										

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Eurofins Carlshad

1089 N Canal St.
Carlshad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:	N/A	Phone:	Kramer, Jessica	N/A	890-4759.3
Shipping/Receiving:	N/A	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	Page: 3 of 7
Company:	Eurofins Environment Testing South Cent	Accreditations Required (See note):	TEXAS	Job #:	890-7831-1
Address:	1211 W. Florida Ave.	Due Date Requested:	NECLAP - Texas	Preservation Codes:	
City:	Midland	TAT Requested (days):			
State, Zip:	TX, 79701				
Phone:	432-704-5440(Tel)	PO #:			
Email:	N/A	WO #:			
Project Name:	N/A	Project #:			
Plains 16 state #001	88000222	SSOW#:			
Site:	N/A				
Other: N/A					
Sample Identification - Client ID (Lab ID)					
	Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (Weigh, Solid, Overhead, BT-Tissue, A-Air)	Field Filtered Sample (Yes or No)
					Perform MS/MSD (Yes or No)
V-4 (890-7831-19)	3/18/25	Central	G	Solid	300_ORGFM_28D/DI_LEACH Chloride
V-4 (890-7831-20)	3/18/25	Central	G	Solid	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO
V-5 (890-7831-21)	3/18/25	Central	G	Solid	8021B/5035FP_Calc BTEX
V-5 (890-7831-22)	3/18/25	Central	G	Solid	8015MOD_Calc
V-5 (890-7831-23)	3/18/25	Central	G	Solid	
V-5 (890-7831-24)	3/18/25	Central	G	Solid	
V-5 (890-7831-25)	3/18/25	Central	G	Solid	
V-6 (890-7831-26)	3/18/25	Central	G	Solid	
V-6 (890-7831-27)	3/18/25	Central	G	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Special Instructions/QC Requirements:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Empty Kit Relinquished by:					
Relinquished by:	Date/Time:	1630	Company:	Received by:	Date/Time:
Relinquished by:	Date/Time:		Company:	Received by:	Date/Time:
Relinquished by:	Date/Time:		Company:	Received by:	Date/Time:
Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No					

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)						Sampler	N/A	Laboratory	Jessica Kramer	COC No.	890-7831-1											
Client Contact:						Phone	N/A	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	Texas											
Shipping/Receiving						N/A				Page 2 of 7												
Eurofins Environment Testing South Center						Accreditations Required (See note)			Job #:			890-7831-1										
Address:						Due Date Requested:			Preservation Codes:													
City:						TAT Requested (days):																
Midland						N/A																
State, Zip																						
TX, 79701																						
Phone:						PO #:																
432-704-5440(Tel)						N/A																
Email:						WO #																
N/A						N/A																
Project Name						Project #:																
Palms 16 State #001						88000222																
Site:						SSOW#:																
N/A						N/A																
Other:																						
N/A																						
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (Wetwax, Strawd, Omeasol, Briarsun, Asph)	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Total Number of containers			Special Instructions/Note:			
V-2 (890-7831-10)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-3 (890-7831-11)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-3 (890-7831-12)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-3 (890-7831-13)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-3 (890-7831-14)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-3 (890-7831-15)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-4 (890-7831-16)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-4 (890-7831-17)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
V-4 (890-7831-18)						3/18/25	Central	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Center, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Center, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Center, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Center, LLC.																						
Possible Hazard Identification																						
Unconfirmed																						
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																						
Special Institutions/QC Requirements:																						
Employer Requested by: _____ Date: _____ Method of Shipment: _____																						
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Company: _____																						
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Company: _____																						
Cooler Temperature(s) °C and Other Remarks: _____																						
Custody Seals Intact: _____ Custody Seal No.: _____																						
Δ Yes Δ No																						

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7832-1

SDG Number: Eddy, NM

Login Number: 7832

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7832-1

SDG Number: Eddy, NM

Login Number: 7832

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 03/20/25 08:02 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/1/2025 4:14:07 PM

JOB DESCRIPTION

EOG Nelson Fed #8 (MAL-13-13)
Eddy County, NM

JOB NUMBER

890-7900-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



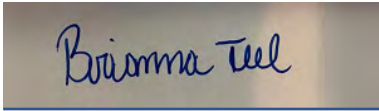
Eurofins Carlsbad

Job Notes

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

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

Authorization



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4/1/2025 4:14:07 PM

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

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Laboratory Job ID: 890-7900-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration
Project: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1

Job ID: 890-7900-1

Eurofins Carlsbad

Job Narrative 890-7900-1

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

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

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

Receipt

The samples were received on 3/31/2025 1:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7900-1), CS-2 (890-7900-2), CS-3 (890-7900-3), CS-4 (890-7900-4), CS-5 (890-7900-5), CS-6 (890-7900-6), CS-7 (890-7900-7), CS-8 (890-7900-8), CS-9 (890-7900-9), CS-10 (890-7900-10), SW-1 (890-7900-11), SW-2 (890-7900-12), SW-3 (890-7900-13), SW-4 (890-7900-14) and SW-5 (890-7900-15).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-106637 and analytical batch 880-106601 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-106637/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-106634 and analytical batch 880-106603 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-106634/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7900-1

Date Collected: 03/31/25 09:00

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00204	U	0.00204		mg/Kg		04/01/25 08:53	04/01/25 14:21	1
Toluene	<0.00204	U	0.00204		mg/Kg		04/01/25 08:53	04/01/25 14:21	1
Ethylbenzene	<0.00204	U	0.00204		mg/Kg		04/01/25 08:53	04/01/25 14:21	1
m-Xylene & p-Xylene	<0.00409	U	0.00409		mg/Kg		04/01/25 08:53	04/01/25 14:21	1
o-Xylene	<0.00204	U	0.00204		mg/Kg		04/01/25 08:53	04/01/25 14:21	1
Xylenes, Total	<0.00409	U	0.00409		mg/Kg		04/01/25 08:53	04/01/25 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/01/25 08:53	04/01/25 14:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/01/25 08:53	04/01/25 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00409	U	0.00409		mg/Kg			04/01/25 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/01/25 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		04/01/25 09:38	04/01/25 13:40	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		04/01/25 09:38	04/01/25 13:40	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/01/25 09:38	04/01/25 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/01/25 09:38	04/01/25 13:40	1
o-Terphenyl	101		70 - 130	04/01/25 09:38	04/01/25 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.8		9.92		mg/Kg			04/01/25 12:46	1

Client Sample ID: CS-2

Lab Sample ID: 890-7900-2

Date Collected: 03/31/25 09:05

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/01/25 08:53	04/01/25 14:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/01/25 08:53	04/01/25 14:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/01/25 08:53	04/01/25 14:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/01/25 08:53	04/01/25 14:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/01/25 08:53	04/01/25 14:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/01/25 08:53	04/01/25 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/01/25 08:53	04/01/25 14:41	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-2

Lab Sample ID: 890-7900-2

Date Collected: 03/31/25 09:05

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	04/01/25 08:53	04/01/25 14:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/25 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/01/25 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4		mg/Kg		04/01/25 09:38	04/01/25 14:01	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		04/01/25 09:38	04/01/25 14:01	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/01/25 09:38	04/01/25 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/01/25 09:38	04/01/25 14:01	1
o-Terphenyl	115		70 - 130				04/01/25 09:38	04/01/25 14:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.0		10.0		mg/Kg			04/01/25 13:03	1

Client Sample ID: CS-3

Lab Sample ID: 890-7900-3

Date Collected: 03/31/25 09:10

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 12:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 12:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 12:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 12:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 12:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/01/25 09:55	04/01/25 12:07	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/01/25 09:55	04/01/25 12:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/25 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/01/25 14:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-3

Lab Sample ID: 890-7900-3

Date Collected: 03/31/25 09:10

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		04/01/25 09:38	04/01/25 14:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		04/01/25 09:38	04/01/25 14:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/01/25 09:38	04/01/25 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/01/25 09:38	04/01/25 14:39	1
o-Terphenyl	106		70 - 130				04/01/25 09:38	04/01/25 14:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.8		9.90		mg/Kg			04/01/25 13:09	1

Client Sample ID: CS-4

Lab Sample ID: 890-7900-4

Date Collected: 03/31/25 09:15

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/01/25 09:55	04/01/25 12:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/01/25 09:55	04/01/25 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/01/25 09:55	04/01/25 12:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/01/25 09:55	04/01/25 12:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/01/25 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/01/25 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		04/01/25 09:38	04/01/25 14:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		04/01/25 09:38	04/01/25 14:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/25 09:38	04/01/25 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/01/25 09:38	04/01/25 14:59	1
o-Terphenyl	106		70 - 130				04/01/25 09:38	04/01/25 14:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7900-4

Date Collected: 03/31/25 09:15

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.2		10.1		mg/Kg			04/01/25 13:15	1

Client Sample ID: CS-5

Lab Sample ID: 890-7900-5

Date Collected: 03/31/25 09:20

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/01/25 09:55	04/01/25 12:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 12:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/01/25 09:55	04/01/25 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/01/25 09:55	04/01/25 12:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/01/25 09:55	04/01/25 12:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/01/25 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/01/25 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		04/01/25 09:38	04/01/25 15:20	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		04/01/25 09:38	04/01/25 15:20	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/01/25 09:38	04/01/25 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/01/25 09:38	04/01/25 15:20	1
o-Terphenyl	103		70 - 130				04/01/25 09:38	04/01/25 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.6		10.1		mg/Kg			04/01/25 11:27	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-6

Lab Sample ID: 890-7900-6

Date Collected: 03/31/25 09:25

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 14:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/01/25 09:08	04/01/25 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 14:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/01/25 09:08	04/01/25 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/01/25 09:08	04/01/25 14:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/01/25 09:08	04/01/25 14:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/01/25 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/01/25 11:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		04/01/25 09:56	04/01/25 11:17	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/01/25 09:56	04/01/25 11:17	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/01/25 09:56	04/01/25 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/01/25 09:56	04/01/25 11:17	1
o-Terphenyl	108		70 - 130	04/01/25 09:56	04/01/25 11:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.0		10.1		mg/Kg			04/01/25 11:48	1

Client Sample ID: CS-7

Lab Sample ID: 890-7900-7

Date Collected: 03/31/25 09:30

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00204	U	0.00204		mg/Kg		04/01/25 09:08	04/01/25 14:30	1
Toluene	<0.00204	U	0.00204		mg/Kg		04/01/25 09:08	04/01/25 14:30	1
Ethylbenzene	<0.00204	U	0.00204		mg/Kg		04/01/25 09:08	04/01/25 14:30	1
m-Xylene & p-Xylene	<0.00409	U	0.00409		mg/Kg		04/01/25 09:08	04/01/25 14:30	1
o-Xylene	<0.00204	U	0.00204		mg/Kg		04/01/25 09:08	04/01/25 14:30	1
Xylenes, Total	<0.00409	U	0.00409		mg/Kg		04/01/25 09:08	04/01/25 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/01/25 09:08	04/01/25 14:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7900-7

Date Collected: 03/31/25 09:30

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	04/01/25 09:08	04/01/25 14:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00409	U	0.00409		mg/Kg			04/01/25 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			04/01/25 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3		mg/Kg		04/01/25 09:56	04/01/25 12:18	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/01/25 09:56	04/01/25 12:18	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/01/25 09:56	04/01/25 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/01/25 09:56	04/01/25 12:18	1
o-Terphenyl	103		70 - 130				04/01/25 09:56	04/01/25 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		9.92		mg/Kg			04/01/25 11:56	1

Client Sample ID: CS-8

Lab Sample ID: 890-7900-8

Date Collected: 03/31/25 09:35

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:08	04/01/25 14:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:08	04/01/25 14:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:08	04/01/25 14:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/01/25 09:08	04/01/25 14:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:08	04/01/25 14:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/01/25 09:08	04/01/25 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/01/25 09:08	04/01/25 14:51	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/01/25 09:08	04/01/25 14:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/25 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.3		50.1		mg/Kg			04/01/25 12:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-8

Lab Sample ID: 890-7900-8

Date Collected: 03/31/25 09:35

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		04/01/25 09:56	04/01/25 12:39	1
Diesel Range Organics (Over C10-C28)	80.3		50.1		mg/Kg		04/01/25 09:56	04/01/25 12:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/01/25 09:56	04/01/25 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/01/25 09:56	04/01/25 12:39	1
o-Terphenyl	101		70 - 130				04/01/25 09:56	04/01/25 12:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		9.92		mg/Kg			04/01/25 12:03	1

Client Sample ID: CS-9

Lab Sample ID: 890-7900-9

Date Collected: 03/31/25 09:40

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 13:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 13:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 13:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/01/25 09:55	04/01/25 13:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 13:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/01/25 09:55	04/01/25 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/01/25 09:55	04/01/25 13:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/01/25 09:55	04/01/25 13:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/01/25 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/01/25 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4		mg/Kg		04/01/25 09:56	04/01/25 12:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/01/25 09:56	04/01/25 12:59	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/01/25 09:56	04/01/25 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/01/25 09:56	04/01/25 12:59	1
o-Terphenyl	102		70 - 130				04/01/25 09:56	04/01/25 12:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-9

Lab Sample ID: 890-7900-9

Date Collected: 03/31/25 09:40

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.1		10.0		mg/Kg			04/01/25 12:10	1

Client Sample ID: CS-10

Lab Sample ID: 890-7900-10

Date Collected: 03/31/25 09:45

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 13:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/01/25 09:55	04/01/25 13:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/01/25 09:55	04/01/25 13:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/25 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/01/25 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		04/01/25 09:56	04/01/25 13:20	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/01/25 09:56	04/01/25 13:20	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/01/25 09:56	04/01/25 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/01/25 09:56	04/01/25 13:20	1
o-Terphenyl	107		70 - 130				04/01/25 09:56	04/01/25 13:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		9.98		mg/Kg			04/01/25 12:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7900-11

Date Collected: 03/31/25 09:50

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 13:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 13:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/01/25 09:55	04/01/25 13:50	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/01/25 09:55	04/01/25 13:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/25 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/01/25 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		04/01/25 09:56	04/01/25 13:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 13:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/01/25 09:56	04/01/25 13:40	1
o-Terphenyl	88		70 - 130	04/01/25 09:56	04/01/25 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.6		9.92		mg/Kg			04/01/25 12:39	1

Client Sample ID: SW-2

Lab Sample ID: 890-7900-12

Date Collected: 03/31/25 10:30

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 14:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 14:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 14:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/01/25 09:55	04/01/25 14:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/01/25 09:55	04/01/25 14:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/01/25 09:55	04/01/25 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/01/25 09:55	04/01/25 14:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: SW-2

Lab Sample ID: 890-7900-12

Date Collected: 03/31/25 10:30

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	04/01/25 09:55	04/01/25 14:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/01/25 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/01/25 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		04/01/25 09:56	04/01/25 14:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/01/25 09:56	04/01/25 14:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/01/25 09:56	04/01/25 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/01/25 09:56	04/01/25 14:01	1
o-Terphenyl	93		70 - 130				04/01/25 09:56	04/01/25 14:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.5		9.98		mg/Kg			04/01/25 12:46	1

Client Sample ID: SW-3

Lab Sample ID: 890-7900-13

Date Collected: 03/31/25 10:35

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 14:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 14:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 14:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/01/25 09:55	04/01/25 14:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 14:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/01/25 09:55	04/01/25 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/01/25 09:55	04/01/25 14:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/01/25 09:55	04/01/25 14:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/01/25 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/01/25 14:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: SW-3

Lab Sample ID: 890-7900-13

Date Collected: 03/31/25 10:35

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		04/01/25 09:56	04/01/25 14:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 14:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/01/25 09:56	04/01/25 14:39	1
o-Terphenyl	112		70 - 130				04/01/25 09:56	04/01/25 14:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.4		10.0		mg/Kg			04/01/25 12:53	1

Client Sample ID: SW-4

Lab Sample ID: 890-7900-14

Date Collected: 03/31/25 10:40

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00204	U	0.00204		mg/Kg		04/01/25 09:55	04/01/25 14:52	1
Toluene	0.0130		0.00204		mg/Kg		04/01/25 09:55	04/01/25 14:52	1
Ethylbenzene	0.0109		0.00204		mg/Kg		04/01/25 09:55	04/01/25 14:52	1
m-Xylene & p-Xylene	0.0113		0.00409		mg/Kg		04/01/25 09:55	04/01/25 14:52	1
o-Xylene	0.00384		0.00204		mg/Kg		04/01/25 09:55	04/01/25 14:52	1
Xylenes, Total	0.0151		0.00409		mg/Kg		04/01/25 09:55	04/01/25 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/01/25 09:55	04/01/25 14:52	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/01/25 09:55	04/01/25 14:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0390		0.00409		mg/Kg			04/01/25 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/01/25 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		04/01/25 09:56	04/01/25 14:59	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/01/25 09:56	04/01/25 14:59	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/01/25 09:56	04/01/25 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/01/25 09:56	04/01/25 14:59	1
o-Terphenyl	103		70 - 130				04/01/25 09:56	04/01/25 14:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: SW-4

Lab Sample ID: 890-7900-14

Date Collected: 03/31/25 10:40

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.0		9.94		mg/Kg			04/01/25 13:00	1

Client Sample ID: SW-5

Lab Sample ID: 890-7900-15

Date Collected: 03/31/25 10:45

Matrix: Solid

Date Received: 03/31/25 13:11

Sample Depth: 0-8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 15:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 15:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 15:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 15:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/01/25 09:55	04/01/25 15:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/01/25 09:55	04/01/25 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/01/25 09:55	04/01/25 15:12	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/01/25 09:55	04/01/25 15:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/25 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/01/25 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		04/01/25 09:56	04/01/25 15:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/01/25 09:56	04/01/25 15:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/01/25 09:56	04/01/25 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/01/25 09:56	04/01/25 15:20	1
o-Terphenyl	99		70 - 130				04/01/25 09:56	04/01/25 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1		9.96		mg/Kg			04/01/25 13:07	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (70-130)	DFBZ1 (70-130)				
890-7900-1	CS-1	120	91				
890-7900-2	CS-2	112	94				
890-7900-3	CS-3	106	90				
890-7900-3 MS	CS-3	103	95				
890-7900-3 MSD	CS-3	103	95				
890-7900-4	CS-4	110	91				
890-7900-5	CS-5	109	90				
890-7900-6	CS-6	110	93				
890-7900-7	CS-7	111	93				
890-7900-8	CS-8	112	93				
890-7900-9	CS-9	107	90				
890-7900-10	CS-10	109	89				
890-7900-11	SW-1	109	89				
890-7900-12	SW-2	106	89				
890-7900-13	SW-3	105	89				
890-7900-14	SW-4	107	89				
890-7900-15	SW-5	108	89				
LCS 880-106621/1-A	Lab Control Sample	106	99				
LCS 880-106623/1-A	Lab Control Sample	118	96				
LCS 880-106636/1-A	Lab Control Sample	109	101				
LCSD 880-106621/2-A	Lab Control Sample Dup	104	100				
LCSD 880-106623/2-A	Lab Control Sample Dup	119	102				
LCSD 880-106636/2-A	Lab Control Sample Dup	109	101				
MB 880-106621/5-A	Method Blank	109	87				
MB 880-106623/5-A	Method Blank	103	83				
MB 880-106636/5-A	Method Blank	105	86				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		1CO1 (70-130)	OTPH1 (70-130)				
890-7900-1	CS-1	98	101				
890-7900-2	CS-2	113	115				
890-7900-3	CS-3	100	106				
890-7900-4	CS-4	103	106				
890-7900-5	CS-5	99	103				
890-7900-6	CS-6	99	108				
890-7900-6 MS	CS-6	101	104				
890-7900-6 MSD	CS-6	102	105				
890-7900-7	CS-7	94	103				
890-7900-8	CS-8	93	101				
890-7900-9	CS-9	94	102				
890-7900-10	CS-10	97	107				
890-7900-11	SW-1	83	88				

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7900-12	SW-2	84	93
890-7900-13	SW-3	110	112
890-7900-14	SW-4	95	103
890-7900-15	SW-5	92	99
LCS 880-106634/2-A	Lab Control Sample	116	110
LCS 880-106637/2-A	Lab Control Sample	115	124
LCSD 880-106634/3-A	Lab Control Sample Dup	111	102
LCSD 880-106637/3-A	Lab Control Sample Dup	95	102
MB 880-106634/1-A	Method Blank	128	141 S1+
MB 880-106637/1-A	Method Blank	116	133 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-106621/5-A

Matrix: Solid

Analysis Batch: 106612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/01/25 08:53	04/01/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/01/25 08:53	04/01/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/01/25 08:53	04/01/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/01/25 08:53	04/01/25 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/01/25 08:53	04/01/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/01/25 08:53	04/01/25 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/01/25 08:53	04/01/25 11:15	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/01/25 08:53	04/01/25 11:15	1

Lab Sample ID: LCS 880-106621/1-A

Matrix: Solid

Analysis Batch: 106612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1129		mg/Kg		113	70 - 130
Toluene	0.100	0.09801		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.09929		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-106621/2-A

Matrix: Solid

Analysis Batch: 106612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1147		mg/Kg		115	70 - 130	2	35
Toluene	0.100	0.09722		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09784		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1978		mg/Kg		99	70 - 130	2	35
o-Xylene	0.100	0.1004		mg/Kg		100	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-106623/5-A

Matrix: Solid

Analysis Batch: 106614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 11:25	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-106623/5-A

Matrix: Solid

Analysis Batch: 106614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/01/25 09:08	04/01/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:08	04/01/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/01/25 09:08	04/01/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/01/25 09:08	04/01/25 11:25	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/01/25 09:08	04/01/25 11:25	1

Lab Sample ID: LCS 880-106623/1-A

Matrix: Solid

Analysis Batch: 106614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1107		mg/Kg		111	70 - 130
Toluene	0.100	0.09748		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09366		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1971		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09355		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-106623/2-A

Matrix: Solid

Analysis Batch: 106614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106623

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1145		mg/Kg		114	70 - 130	3	35
Toluene	0.100	0.1023		mg/Kg		102	70 - 130	5	35
Ethylbenzene	0.100	0.09960		mg/Kg		100	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2052		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.09858		mg/Kg		99	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-106636/5-A

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/01/25 09:55	04/01/25 11:46	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-106636/5-A

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106636

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/01/25 09:55	04/01/25 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/01/25 09:55	04/01/25 11:46	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	105		70 - 130				04/01/25 09:55	04/01/25 11:46	1
1,4-Difluorobenzene (Surr)	86		70 - 130				04/01/25 09:55	04/01/25 11:46	1

Lab Sample ID: LCS 880-106636/1-A

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106636

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
Benzene	0.100	0.1185		mg/Kg		119	70 - 130		
Toluene	0.100	0.1069		mg/Kg		107	70 - 130		
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130		
m-Xylene & p-Xylene	0.200	0.2430		mg/Kg		121	70 - 130		
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130		
Surrogate	LCS	LCS	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: LCSD 880-106636/2-A

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106636

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.100	0.1187		mg/Kg		119	70 - 130	0	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2407		mg/Kg		120	70 - 130	1	35
o-Xylene	0.100	0.1203		mg/Kg		120	70 - 130	0	35
Surrogate	LCSD	LCSD	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 890-7900-3 MS

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: CS-3

Prep Type: Total/NA

Prep Batch: 106636

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U	0.0996	0.1102		mg/Kg		111	70 - 130		
Toluene	<0.00199	U	0.0996	0.09941		mg/Kg		100	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1055		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2237		mg/Kg		112	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1119		mg/Kg		112	70 - 130		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-7900-3 MS

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: CS-3

Prep Type: Total/NA

Prep Batch: 106636

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-7900-3 MSD

Matrix: Solid

Analysis Batch: 106615

Client Sample ID: CS-3

Prep Type: Total/NA

Prep Batch: 106636

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09486		mg/Kg		95	70 - 130	15	35
Toluene	<0.00199	U	0.100	0.08442		mg/Kg		84	70 - 130	16	35
Ethylbenzene	<0.00199	U	0.100	0.08941		mg/Kg		89	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1896		mg/Kg		95	70 - 130	16	35
o-Xylene	<0.00199	U	0.100	0.09508		mg/Kg		95	70 - 130	16	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-106634/1-A

Matrix: Solid

Analysis Batch: 106603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/25 09:37	04/01/25 08:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/25 09:37	04/01/25 08:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/25 09:37	04/01/25 08:49	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	128		70 - 130	04/01/25 09:37	04/01/25 08:49	1			
o-Terphenyl	141	S1+	70 - 130	04/01/25 09:37	04/01/25 08:49	1			

Lab Sample ID: LCS 880-106634/2-A

Matrix: Solid

Analysis Batch: 106603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1164		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1064		mg/Kg		106	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	110		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-106634/3-A

Matrix: Solid

Analysis Batch: 106603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	747.3	*1	mg/Kg		75	70 - 130	44	20
Diesel Range Organics (Over C10-C28)	1000	833.0	*1	mg/Kg		83	70 - 130	24	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	102		70 - 130						

Lab Sample ID: MB 880-106637/1-A

Matrix: Solid

Analysis Batch: 106601

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 08:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 08:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/25 09:56	04/01/25 08:49	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/01/25 09:56	04/01/25 08:49	1
o-Terphenyl	133	S1+	70 - 130				04/01/25 09:56	04/01/25 08:49	1

Lab Sample ID: LCS 880-106637/2-A

Matrix: Solid

Analysis Batch: 106601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1190		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1003		mg/Kg		100	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	124		70 - 130						

Lab Sample ID: LCSD 880-106637/3-A

Matrix: Solid

Analysis Batch: 106601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	932.3	*1	mg/Kg		93	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	971.7		mg/Kg		97	70 - 130	3	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-106637/3-A

Matrix: Solid

Analysis Batch: 106601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106637

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-7900-6 MS

Matrix: Solid

Analysis Batch: 106601

Client Sample ID: CS-6

Prep Type: Total/NA

Prep Batch: 106637

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	996	797.7		mg/Kg		78	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	996	699.9		mg/Kg		70	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	101		70 - 130							
o-Terphenyl	104		70 - 130							

Lab Sample ID: 890-7900-6 MSD

Matrix: Solid

Analysis Batch: 106601

Client Sample ID: CS-6

Prep Type: Total/NA

Prep Batch: 106637

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	996	813.5		mg/Kg		80	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<50.1	U	996	702.0		mg/Kg		70	70 - 130	0	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	102		70 - 130									
o-Terphenyl	105		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-106610/1-A

Matrix: Solid

Analysis Batch: 106638

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<10.0	U	10.0		mg/Kg			04/01/25 10:45	1	

Lab Sample ID: LCS 880-106610/2-A

Matrix: Solid

Analysis Batch: 106638

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	240.7		mg/Kg		96	90 - 110		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-106610/3-A

Matrix: Solid

Analysis Batch: 106638

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.1		mg/Kg		97	90 - 110	1	20

Lab Sample ID: MB 880-106622/1-A

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/01/25 11:05	1

Lab Sample ID: LCS 880-106622/2-A

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	245.9		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-106622/3-A

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.3		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-7900-5 MS

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: CS-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	78.6		252	312.1		mg/Kg		93	90 - 110		

Lab Sample ID: 890-7900-5 MSD

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: CS-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.6		252	314.2		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-7900-15 MS

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: SW-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.1		249	323.1		mg/Kg		98	90 - 110		

Lab Sample ID: 890-7900-15 MSD

Matrix: Solid

Analysis Batch: 106639

Client Sample ID: SW-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.1		249	324.2		mg/Kg		98	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 106612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Total/NA	Solid	8021B	106621
890-7900-2	CS-2	Total/NA	Solid	8021B	106621
MB 880-106621/5-A	Method Blank	Total/NA	Solid	8021B	106621
LCS 880-106621/1-A	Lab Control Sample	Total/NA	Solid	8021B	106621
LCSD 880-106621/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	106621

Analysis Batch: 106614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-6	CS-6	Total/NA	Solid	8021B	106623
890-7900-7	CS-7	Total/NA	Solid	8021B	106623
890-7900-8	CS-8	Total/NA	Solid	8021B	106623
MB 880-106623/5-A	Method Blank	Total/NA	Solid	8021B	106623
LCS 880-106623/1-A	Lab Control Sample	Total/NA	Solid	8021B	106623
LCSD 880-106623/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	106623

Analysis Batch: 106615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-3	CS-3	Total/NA	Solid	8021B	106636
890-7900-4	CS-4	Total/NA	Solid	8021B	106636
890-7900-5	CS-5	Total/NA	Solid	8021B	106636
890-7900-9	CS-9	Total/NA	Solid	8021B	106636
890-7900-10	CS-10	Total/NA	Solid	8021B	106636
890-7900-11	SW-1	Total/NA	Solid	8021B	106636
890-7900-12	SW-2	Total/NA	Solid	8021B	106636
890-7900-13	SW-3	Total/NA	Solid	8021B	106636
890-7900-14	SW-4	Total/NA	Solid	8021B	106636
890-7900-15	SW-5	Total/NA	Solid	8021B	106636
MB 880-106636/5-A	Method Blank	Total/NA	Solid	8021B	106636
LCS 880-106636/1-A	Lab Control Sample	Total/NA	Solid	8021B	106636
LCSD 880-106636/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	106636
890-7900-3 MS	CS-3	Total/NA	Solid	8021B	106636
890-7900-3 MSD	CS-3	Total/NA	Solid	8021B	106636

Prep Batch: 106621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Total/NA	Solid	5035	
890-7900-2	CS-2	Total/NA	Solid	5035	
MB 880-106621/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-106621/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-106621/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 106623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-6	CS-6	Total/NA	Solid	5035	
890-7900-7	CS-7	Total/NA	Solid	5035	
890-7900-8	CS-8	Total/NA	Solid	5035	
MB 880-106623/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-106623/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-106623/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 106636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-3	CS-3	Total/NA	Solid	5035	
890-7900-4	CS-4	Total/NA	Solid	5035	
890-7900-5	CS-5	Total/NA	Solid	5035	
890-7900-9	CS-9	Total/NA	Solid	5035	
890-7900-10	CS-10	Total/NA	Solid	5035	
890-7900-11	SW-1	Total/NA	Solid	5035	
890-7900-12	SW-2	Total/NA	Solid	5035	
890-7900-13	SW-3	Total/NA	Solid	5035	
890-7900-14	SW-4	Total/NA	Solid	5035	
890-7900-15	SW-5	Total/NA	Solid	5035	
MB 880-106636/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-106636/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-106636/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7900-3 MS	CS-3	Total/NA	Solid	5035	
890-7900-3 MSD	CS-3	Total/NA	Solid	5035	

Analysis Batch: 106685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Total/NA	Solid	Total BTEX	
890-7900-2	CS-2	Total/NA	Solid	Total BTEX	
890-7900-3	CS-3	Total/NA	Solid	Total BTEX	
890-7900-4	CS-4	Total/NA	Solid	Total BTEX	
890-7900-5	CS-5	Total/NA	Solid	Total BTEX	
890-7900-6	CS-6	Total/NA	Solid	Total BTEX	
890-7900-7	CS-7	Total/NA	Solid	Total BTEX	
890-7900-8	CS-8	Total/NA	Solid	Total BTEX	
890-7900-9	CS-9	Total/NA	Solid	Total BTEX	
890-7900-10	CS-10	Total/NA	Solid	Total BTEX	
890-7900-11	SW-1	Total/NA	Solid	Total BTEX	
890-7900-12	SW-2	Total/NA	Solid	Total BTEX	
890-7900-13	SW-3	Total/NA	Solid	Total BTEX	
890-7900-14	SW-4	Total/NA	Solid	Total BTEX	
890-7900-15	SW-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 106601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-6	CS-6	Total/NA	Solid	8015B NM	106637
890-7900-7	CS-7	Total/NA	Solid	8015B NM	106637
890-7900-8	CS-8	Total/NA	Solid	8015B NM	106637
890-7900-9	CS-9	Total/NA	Solid	8015B NM	106637
890-7900-10	CS-10	Total/NA	Solid	8015B NM	106637
890-7900-11	SW-1	Total/NA	Solid	8015B NM	106637
890-7900-12	SW-2	Total/NA	Solid	8015B NM	106637
890-7900-13	SW-3	Total/NA	Solid	8015B NM	106637
890-7900-14	SW-4	Total/NA	Solid	8015B NM	106637
890-7900-15	SW-5	Total/NA	Solid	8015B NM	106637
MB 880-106637/1-A	Method Blank	Total/NA	Solid	8015B NM	106637
LCS 880-106637/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	106637
LCSD 880-106637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	106637

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 106601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-6 MS	CS-6	Total/NA	Solid	8015B NM	106637
890-7900-6 MSD	CS-6	Total/NA	Solid	8015B NM	106637

Analysis Batch: 106603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Total/NA	Solid	8015B NM	106634
890-7900-2	CS-2	Total/NA	Solid	8015B NM	106634
890-7900-3	CS-3	Total/NA	Solid	8015B NM	106634
890-7900-4	CS-4	Total/NA	Solid	8015B NM	106634
890-7900-5	CS-5	Total/NA	Solid	8015B NM	106634
MB 880-106634/1-A	Method Blank	Total/NA	Solid	8015B NM	106634
LCS 880-106634/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	106634
LCSD 880-106634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	106634

Prep Batch: 106634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Total/NA	Solid	8015NM Prep	
890-7900-2	CS-2	Total/NA	Solid	8015NM Prep	
890-7900-3	CS-3	Total/NA	Solid	8015NM Prep	
890-7900-4	CS-4	Total/NA	Solid	8015NM Prep	
890-7900-5	CS-5	Total/NA	Solid	8015NM Prep	
MB 880-106634/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-106634/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-106634/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 106637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-6	CS-6	Total/NA	Solid	8015NM Prep	
890-7900-7	CS-7	Total/NA	Solid	8015NM Prep	
890-7900-8	CS-8	Total/NA	Solid	8015NM Prep	
890-7900-9	CS-9	Total/NA	Solid	8015NM Prep	
890-7900-10	CS-10	Total/NA	Solid	8015NM Prep	
890-7900-11	SW-1	Total/NA	Solid	8015NM Prep	
890-7900-12	SW-2	Total/NA	Solid	8015NM Prep	
890-7900-13	SW-3	Total/NA	Solid	8015NM Prep	
890-7900-14	SW-4	Total/NA	Solid	8015NM Prep	
890-7900-15	SW-5	Total/NA	Solid	8015NM Prep	
MB 880-106637/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-106637/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-106637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7900-6 MS	CS-6	Total/NA	Solid	8015NM Prep	
890-7900-6 MSD	CS-6	Total/NA	Solid	8015NM Prep	

Analysis Batch: 106705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Total/NA	Solid	8015 NM	
890-7900-2	CS-2	Total/NA	Solid	8015 NM	
890-7900-3	CS-3	Total/NA	Solid	8015 NM	
890-7900-4	CS-4	Total/NA	Solid	8015 NM	
890-7900-5	CS-5	Total/NA	Solid	8015 NM	
890-7900-6	CS-6	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 106705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-7	CS-7	Total/NA	Solid	8015 NM	
890-7900-8	CS-8	Total/NA	Solid	8015 NM	
890-7900-9	CS-9	Total/NA	Solid	8015 NM	
890-7900-10	CS-10	Total/NA	Solid	8015 NM	
890-7900-11	SW-1	Total/NA	Solid	8015 NM	
890-7900-12	SW-2	Total/NA	Solid	8015 NM	
890-7900-13	SW-3	Total/NA	Solid	8015 NM	
890-7900-14	SW-4	Total/NA	Solid	8015 NM	
890-7900-15	SW-5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 106610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Soluble	Solid	DI Leach	
890-7900-2	CS-2	Soluble	Solid	DI Leach	
890-7900-3	CS-3	Soluble	Solid	DI Leach	
890-7900-4	CS-4	Soluble	Solid	DI Leach	
MB 880-106610/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-106610/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-106610/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 106622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-5	CS-5	Soluble	Solid	DI Leach	
890-7900-6	CS-6	Soluble	Solid	DI Leach	
890-7900-7	CS-7	Soluble	Solid	DI Leach	
890-7900-8	CS-8	Soluble	Solid	DI Leach	
890-7900-9	CS-9	Soluble	Solid	DI Leach	
890-7900-10	CS-10	Soluble	Solid	DI Leach	
890-7900-11	SW-1	Soluble	Solid	DI Leach	
890-7900-12	SW-2	Soluble	Solid	DI Leach	
890-7900-13	SW-3	Soluble	Solid	DI Leach	
890-7900-14	SW-4	Soluble	Solid	DI Leach	
890-7900-15	SW-5	Soluble	Solid	DI Leach	
MB 880-106622/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-106622/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-106622/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7900-5 MS	CS-5	Soluble	Solid	DI Leach	
890-7900-5 MSD	CS-5	Soluble	Solid	DI Leach	
890-7900-15 MS	SW-5	Soluble	Solid	DI Leach	
890-7900-15 MSD	SW-5	Soluble	Solid	DI Leach	

Analysis Batch: 106638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-1	CS-1	Soluble	Solid	300.0	106610
890-7900-2	CS-2	Soluble	Solid	300.0	106610
890-7900-3	CS-3	Soluble	Solid	300.0	106610
890-7900-4	CS-4	Soluble	Solid	300.0	106610
MB 880-106610/1-A	Method Blank	Soluble	Solid	300.0	106610
LCS 880-106610/2-A	Lab Control Sample	Soluble	Solid	300.0	106610

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 106638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-106610/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	106610

Analysis Batch: 106639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7900-5	CS-5	Soluble	Solid	300.0	106622
890-7900-6	CS-6	Soluble	Solid	300.0	106622
890-7900-7	CS-7	Soluble	Solid	300.0	106622
890-7900-8	CS-8	Soluble	Solid	300.0	106622
890-7900-9	CS-9	Soluble	Solid	300.0	106622
890-7900-10	CS-10	Soluble	Solid	300.0	106622
890-7900-11	SW-1	Soluble	Solid	300.0	106622
890-7900-12	SW-2	Soluble	Solid	300.0	106622
890-7900-13	SW-3	Soluble	Solid	300.0	106622
890-7900-14	SW-4	Soluble	Solid	300.0	106622
890-7900-15	SW-5	Soluble	Solid	300.0	106622
MB 880-106622/1-A	Method Blank	Soluble	Solid	300.0	106622
LCS 880-106622/2-A	Lab Control Sample	Soluble	Solid	300.0	106622
LCSD 880-106622/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	106622
890-7900-5 MS	CS-5	Soluble	Solid	300.0	106622
890-7900-5 MSD	CS-5	Soluble	Solid	300.0	106622
890-7900-15 MS	SW-5	Soluble	Solid	300.0	106622
890-7900-15 MSD	SW-5	Soluble	Solid	300.0	106622

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-1**Lab Sample ID: 890-7900-1****Date Collected: 03/31/25 09:00****Matrix: Solid****Date Received: 03/31/25 13:11**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.89 g	5 mL	106621	04/01/25 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106612	04/01/25 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	106634	04/01/25 09:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106603	04/01/25 13:40	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	106610	04/01/25 08:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106638	04/01/25 12:46	SMC	EET MID

Client Sample ID: CS-2**Lab Sample ID: 890-7900-2****Date Collected: 03/31/25 09:05****Matrix: Solid****Date Received: 03/31/25 13:11**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	106621	04/01/25 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106612	04/01/25 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 14:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	106634	04/01/25 09:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106603	04/01/25 14:01	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	106610	04/01/25 08:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106638	04/01/25 13:03	SMC	EET MID

Client Sample ID: CS-3**Lab Sample ID: 890-7900-3****Date Collected: 03/31/25 09:10****Matrix: Solid****Date Received: 03/31/25 13:11**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 12:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 14:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	106634	04/01/25 09:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106603	04/01/25 14:39	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	106610	04/01/25 08:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106638	04/01/25 13:09	SMC	EET MID

Client Sample ID: CS-4**Lab Sample ID: 890-7900-4****Date Collected: 03/31/25 09:15****Matrix: Solid****Date Received: 03/31/25 13:11**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 12:28	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7900-4

Date Collected: 03/31/25 09:15

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			106705	04/01/25 14:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	106634	04/01/25 09:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106603	04/01/25 14:59	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	106610	04/01/25 08:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106638	04/01/25 13:15	SMC	EET MID

Client Sample ID: CS-5

Lab Sample ID: 890-7900-5

Date Collected: 03/31/25 09:20

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 12:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	106634	04/01/25 09:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106603	04/01/25 15:20	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 11:27	SMC	EET MID

Client Sample ID: CS-6

Lab Sample ID: 890-7900-6

Date Collected: 03/31/25 09:25

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	106623	04/01/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106614	04/01/25 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 11:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 11:17	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 11:48	SMC	EET MID

Client Sample ID: CS-7

Lab Sample ID: 890-7900-7

Date Collected: 03/31/25 09:30

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.89 g	5 mL	106623	04/01/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106614	04/01/25 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 12:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 12:18	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7900-7

Date Collected: 03/31/25 09:30

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 11:56	SMC	EET MID

Client Sample ID: CS-8

Lab Sample ID: 890-7900-8

Date Collected: 03/31/25 09:35

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	106623	04/01/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106614	04/01/25 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 12:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 12:39	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 12:03	SMC	EET MID

Client Sample ID: CS-9

Lab Sample ID: 890-7900-9

Date Collected: 03/31/25 09:40

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 13:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 12:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 12:59	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 12:10	SMC	EET MID

Client Sample ID: CS-10

Lab Sample ID: 890-7900-10

Date Collected: 03/31/25 09:45

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 13:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 13:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 13:20	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 12:31	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7900-11

Date Collected: 03/31/25 09:50

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 13:40	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 12:39	SMC	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-7900-12

Date Collected: 03/31/25 10:30

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 14:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 14:01	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 12:46	SMC	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-7900-13

Date Collected: 03/31/25 10:35

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 14:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 14:39	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 12:53	SMC	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-7900-14

Date Collected: 03/31/25 10:40

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.89 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 14:52	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Client Sample ID: SW-4

Lab Sample ID: 890-7900-14

Date Collected: 03/31/25 10:40

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			106705	04/01/25 14:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 14:59	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 13:00	SMC	EET MID

Client Sample ID: SW-5

Lab Sample ID: 890-7900-15

Date Collected: 03/31/25 10:45

Matrix: Solid

Date Received: 03/31/25 13:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	106636	04/01/25 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106615	04/01/25 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106685	04/01/25 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106705	04/01/25 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	106637	04/01/25 09:56	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106601	04/01/25 15:20	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	106622	04/01/25 09:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106639	04/01/25 13:07	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: EOG Nelson Fed #8 (MAL-13-13)

Job ID: 890-7900-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7900-1	CS-1	Solid	03/31/25 09:00	03/31/25 13:11	5
890-7900-2	CS-2	Solid	03/31/25 09:05	03/31/25 13:11	5
890-7900-3	CS-3	Solid	03/31/25 09:10	03/31/25 13:11	5
890-7900-4	CS-4	Solid	03/31/25 09:15	03/31/25 13:11	5
890-7900-5	CS-5	Solid	03/31/25 09:20	03/31/25 13:11	5
890-7900-6	CS-6	Solid	03/31/25 09:25	03/31/25 13:11	5
890-7900-7	CS-7	Solid	03/31/25 09:30	03/31/25 13:11	5
890-7900-8	CS-8	Solid	03/31/25 09:35	03/31/25 13:11	8
890-7900-9	CS-9	Solid	03/31/25 09:40	03/31/25 13:11	8
890-7900-10	CS-10	Solid	03/31/25 09:45	03/31/25 13:11	8
890-7900-11	SW-1	Solid	03/31/25 09:50	03/31/25 13:11	0-5
890-7900-12	SW-2	Solid	03/31/25 10:30	03/31/25 13:11	0-8
890-7900-13	SW-3	Solid	03/31/25 10:35	03/31/25 13:11	0-8
890-7900-14	SW-4	Solid	03/31/25 10:40	03/31/25 13:11	0-8
890-7900-15	SW-5	Solid	03/31/25 10:45	03/31/25 13:11	0-8



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

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

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

Project Name:	EOG Nelson Fed #8 (MAL-13-13)	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	VP-49	☐ Routine ☒ Rush				None: NO DI Water: H ₂ O
Project Location:	Eddy County, NM	Due Date: 24 HR Rush TAT				Cool: Cool MeOH: Me
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃ : HN
POWOW #:						H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: ☒ No ☐ Yes	Wet Ice: ☒ No ☐ Yes				H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID: T11111111				NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor: -0.2				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading: -2.2				Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature: -1.8				NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	Parameters												
							TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush								
CS-1	S	3.31.25	9:00	5	Comp	1	X	X	X		X								
CS-2	S	3.31.25	9:05	5	Comp	1	X	X	X		X								
CS-3	S	3.31.25	9:10	5	Comp	1	X	X	X		X								
CS-4	S	3.31.25	9:15	5	Comp	1	X	X	X		X								
CS-5	S	3.31.25	9:20	5	Comp	1	X	X	X		X								
CS-6	S	3.31.25	9:25	5	Comp	1	X	X	X		X								
CS-7	S	3.31.25	9:30	5	Comp	1	X	X	X		X								
CS-8	S	3.31.25	9:35	8	Comp	1	X	X	X		X								
CS-9	S	3.31.25	9:40	8	Comp	1	X	X	X		X								

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		Hg: 1631 / 245.1 / 7470 / 7471																														

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		13:11 2/21			



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3332
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com Page C of 1

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

Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	EOG Nelson Fed #8 (MAL-13-13)						Turn Around									ANALYSIS REQUEST		Preservative Codes					
Project Number:	VP 49						☐ Routine	☒ Rush												None: NO DI Water: H ₂ O			
Project Location:	Eddy County, NM						Due Date:	24 HR RUSH TAT											Cool: Cool MeOH: Me				
Sampler's Name:	Gilbert Moreno						TAT starts the day received by the lab, if received by 4:30pm											HCL: HC HNO ₃ : HN					
POMO #:																		H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		(Fes) No															
Samples Received Intact:		(Yes No)		Thermometer ID:				7/11/2017															
Cooler Custody Seals:		Yes No		Correction Factor:				-0.2															
Sample Custody Seals:		Yes No		N/A		Temperature Reading:		-2.0															
Total Containers:						Corrected Temperature:		-1.8															
Parameters																							
NM										sh													

[illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. If assigned standard terms and conditions of service, Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the client. A minimum charge of \$66.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno. A minimum charge of \$66.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		17.11.2020			
0					
3					
5					
6					

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7900-1
SDG Number: Eddy County, NM

Login Number: 7900

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7900-1

SDG Number: Eddy County, NM

Login Number: 7900

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 04/01/25 08:30 AM

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

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QUESTIONS

Action 457228

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 457228
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2505739485
Incident Name	NAPP2505739485 EOG NELSON FED #8 (MAL-13-13) @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EOG Nelson Fed #8 (MAL-13-13)
Date Release Discovered	02/26/2025
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Pipeline (Any) Crude Oil Released: 9 BBL Recovered: 8 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 457228

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 457228
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 02/26/2025
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QUESTIONS, Page 3

Action 457228

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airport Lane Midland, TX 79705	OGRID:
	221115
	Action Number:
	457228
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>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.</i>	
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)	15600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9200
GRO+DRO (EPA SW-846 Method 8015M)	9200
BTEX (EPA SW-846 Method 8021B or 8260B)	422
Benzene (EPA SW-846 Method 8021B or 8260B)	41.8
<i>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>	
On what estimated date will the remediation commence	03/26/2025
On what date will (or did) the final sampling or liner inspection occur	03/31/2025
On what date will (or was) the remediation complete(d)	04/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	2000
What is the estimated volume (in cubic yards) that will be reclaimed	400
What is the estimated surface area (in square feet) that will be remediated	2000
What is the estimated volume (in cubic yards) that will be remediated	400
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 457228

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID:
	221115
	Action Number:
	457228
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 04/30/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 457228

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 457228
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 457228

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 457228
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	446123
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/31/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<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	2000
What was the total volume (cubic yards) remediated	400
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	2000
What was the total volume (in cubic yards) reclaimed	400
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.
<i>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>	
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: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 04/30/2025

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QUESTIONS, Page 7

Action 457228

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 457228
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 457228

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 457228
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/16/2025