



May 21, 2025

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

RE: **Shaqtus 26 ST 1 Battery - Closure Request Report**
Incident Number: nAPP2434144241
GPS: 32.43970°, -103.75201°
Eddy County, New Mexico
ESRR Project No. 2728/VP-18302

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Devon Energy (Devon), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil and produced water at the Shaqtus 26 ST 1 Battery (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Devon is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit D, Section 35, Township 21 South, Range 31 East, in Eddy County, New Mexico (32.311583°, -103.51125°) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO) (**Figure 1**). Upon review by ESRR, the coordinates to the Site where this incident occurred should be updated to 32.43978°, -103.75287°.

On December 6, 2024, a pressure relief valve on a vapor recovery tower triggered, causing the release of approximately 10 barrels (bbl) of crude oil and 1 bbl of produced water within a lined secondary containment and onto a Devon operated production pad. A vacuum truck was immediately dispatched to the Site and recovered 1 bbl of fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on December 6, 2024, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Devon gave notice to the New Mexico Oil Conservation Division (NMOCD) on December 6, 2024, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2434144241. A Corrective Action Form C-141 (Form C-141) was submitted on December 18, 2024.

On March 5, 2025, Devon requested an extension of the March 6, 2025 deadline, to allow additional time for remediation activities and for ESRR to finalize this CRR. Devon was granted a 90-day extension by the NMOCD for June 4, 2025.

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:

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- o Between ½ and 1 mile of any continuously flowing watercourse or any other significant watercourse;
- o Between ½ and 1 mile of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Greater than 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;
- 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 ½ and 1 mile of any wetland;
- o Between 1 and 5 miles of any subsurface mine;
- o Between 1 and 5 miles of any unstable area (i.e. Critical, High, or Medium karst potential); and
- o Greater than 5 miles of a 100-year floodplain.

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

Based on the results from the desktop review, no depth to water wells were found within ½ mile with logged data no greater than 25 years old, 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 January 3, 2025, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Thirteen delineation boreholes (HA-1 through HA-13) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for delineation soil samples (HA-8 through HA-11 and HA-13) surrounding the AOC were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for delineation soil samples collected within and around the AOC (HA-1 through HA-7 and HA-12) indicated TPH-GRO+TPH-DRO/TPH and/or Chloride was above the Site Closure Criteria and/or the reclamation standard up to 2 feet bgs. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 182 to 18,800 mg/kg, specifically for TPH-GRO and TPH-DRO. Elevated Chloride concentrations were characterized by concentrations ranging

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from 877 mg/kg to 2,780 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

Liner Inspection

Upon completion of power washing of the LSC, a 48-hour Notification of Liner Inspection (Form C-141 L) was submitted by Devon for January 17, 2025.

On January 17, 2025, ESRR conducted a thorough visual inspection of the LSC and found no tears, cracks, cuts, breaks, or other signs of damage, directly overlying the mapped AOC within the LSC (**Figure 2**), confirming no evidence of a breach to the LSC. Impacts to the production pad appeared to only have occurred due to windblown overspray of fluids from the vapor recovery tower. **Photographic Documentation** of liner inspection activities is attached.

Remediation Activities

On April 3 and 4, 2025, ESRR oversaw excavation activities of identified soil impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths approximately ranging from 1 to 2-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-15) and sidewalls (SW-1 through SW-4). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

Laboratory analytical results for confirmation soil sample (CS-4) indicated the TPH-GRO+TPH-DRO/TPH concentration was above the applicable Site Closure Criteria and/or the reclamation standard. Elevated TPH-GRO+TPH-DRO/TPH was characterized by a concentration of 290 mg/kg, specifically for TPH-DRO at 1-foot bgs.

Additional excavation in the proximity to confirmation soil sample (CS-4) was vertically advanced to a depth of 2.5-feet bgs. Following the removal of soil, ESRR collected, handled, transported, and analyzed the final confirmation soil sample as previously described.

Laboratory analytical results indicated that the concentration 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 188 cubic yards (CY) of impacted soil was removed from the Site and transported to the Lea Land LLC Landfill in Carlsbad, New Mexico under Devon 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.

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Closure Request

Based on laboratory analytical results, impacts associated with the inadvertent release have been delineated, excavated, and removed from the Site in accordance with Site Closure Criteria. Devon 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 Devon respectfully requests Closure of this CRR associated with Incident Number nAPP2434144241.

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.

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

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

Gilbert Moreno
Carlsbad Operations Manager-Project Geologist

A handwritten signature in black ink, appearing to read "Kris Williams".

Kris Williams, CHMM, REM
Principal/ Texas Operations Manager

cc: Jim Raley, Devon Energy
New Mexico State Land Office

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

Devon Energy Permian – Shaqtus 26 ST 1 Battery
GPS: 32.439701,-103.75201
Eddy County, New Mexico

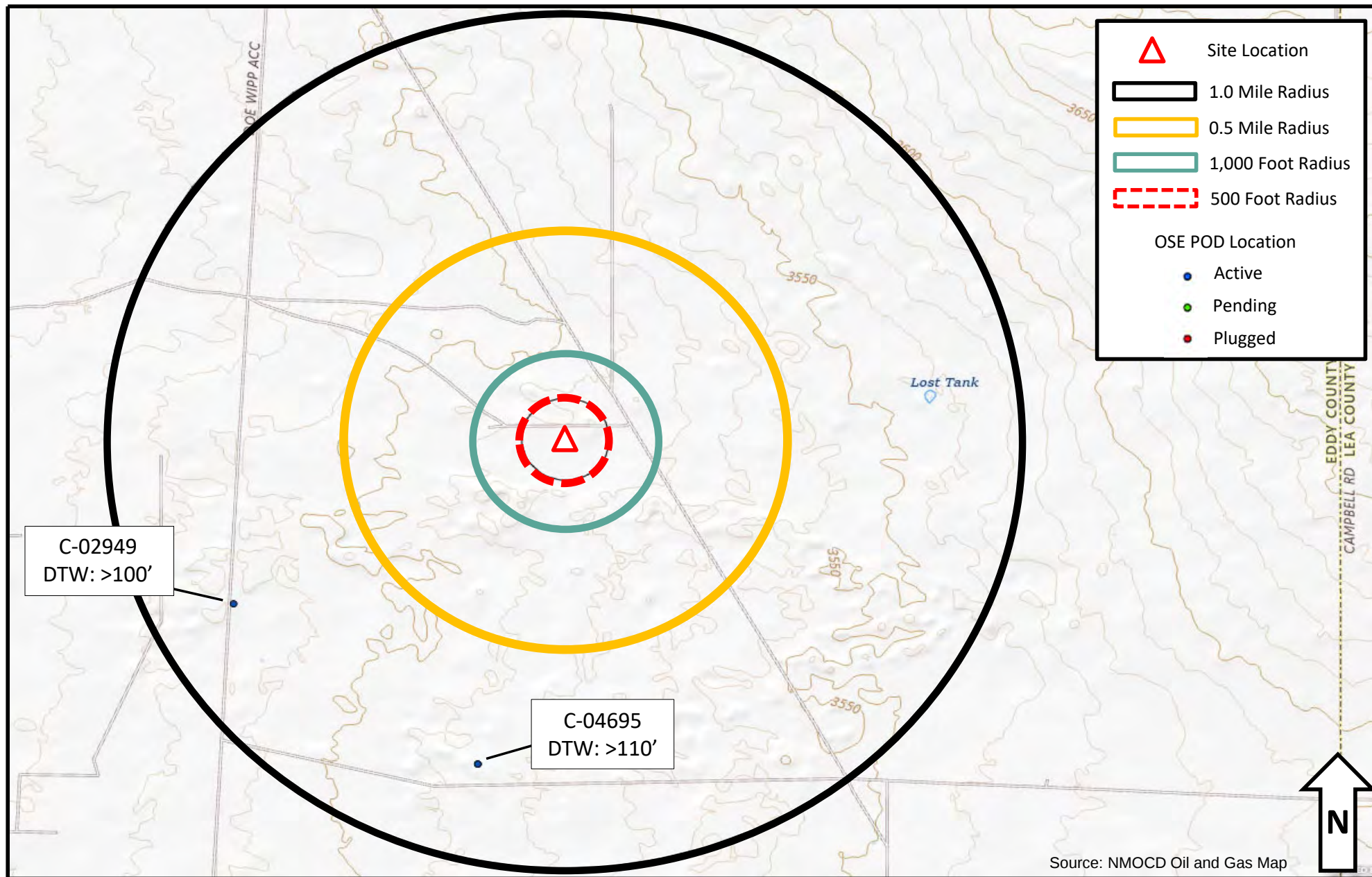


Figure 1A – Ground Water

Devon Energy Permian – Shaqtus 26 ST 1 Battery
 GPS: 32.439701,-103.75201
 Eddy County, New Mexico



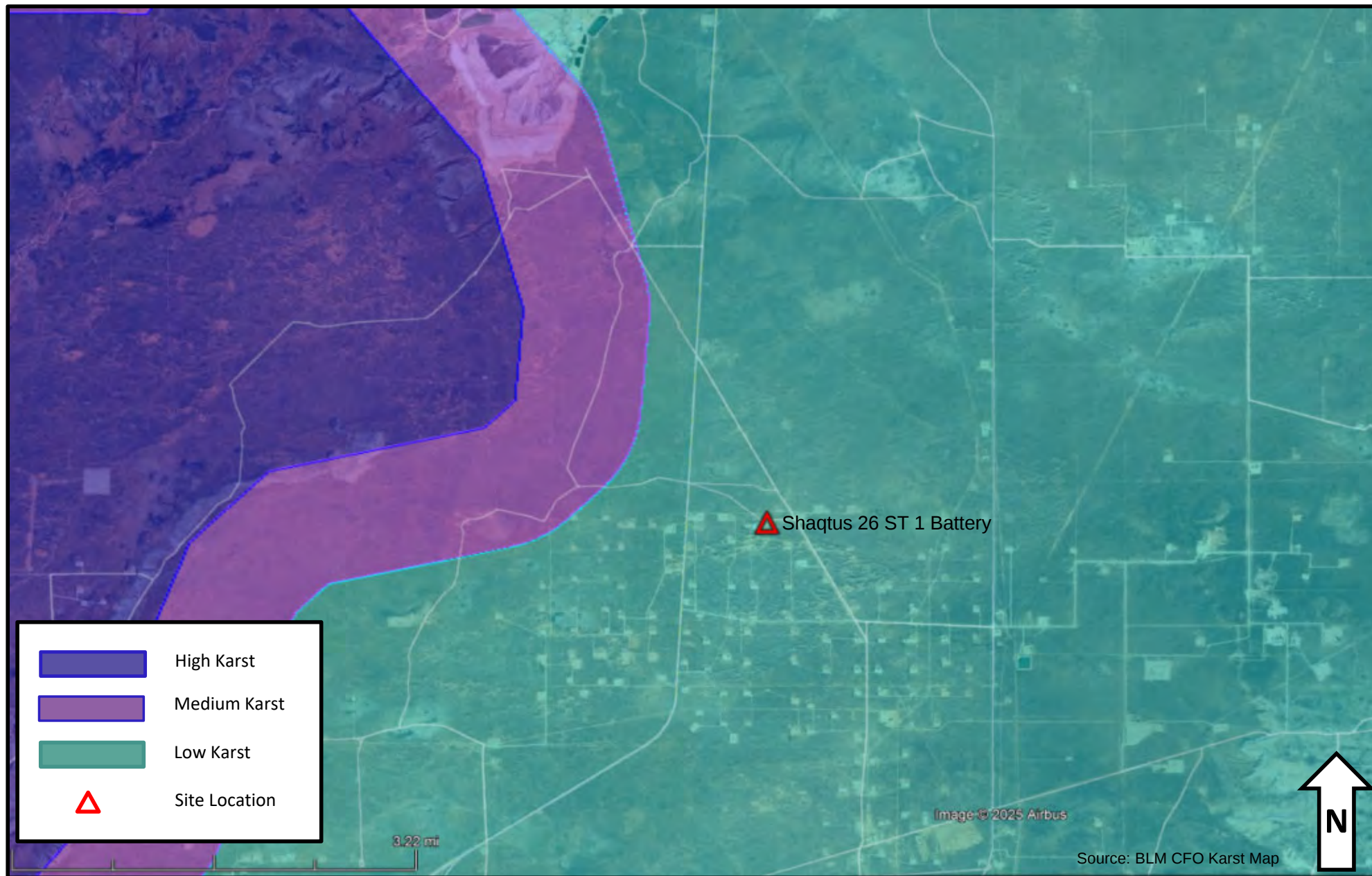
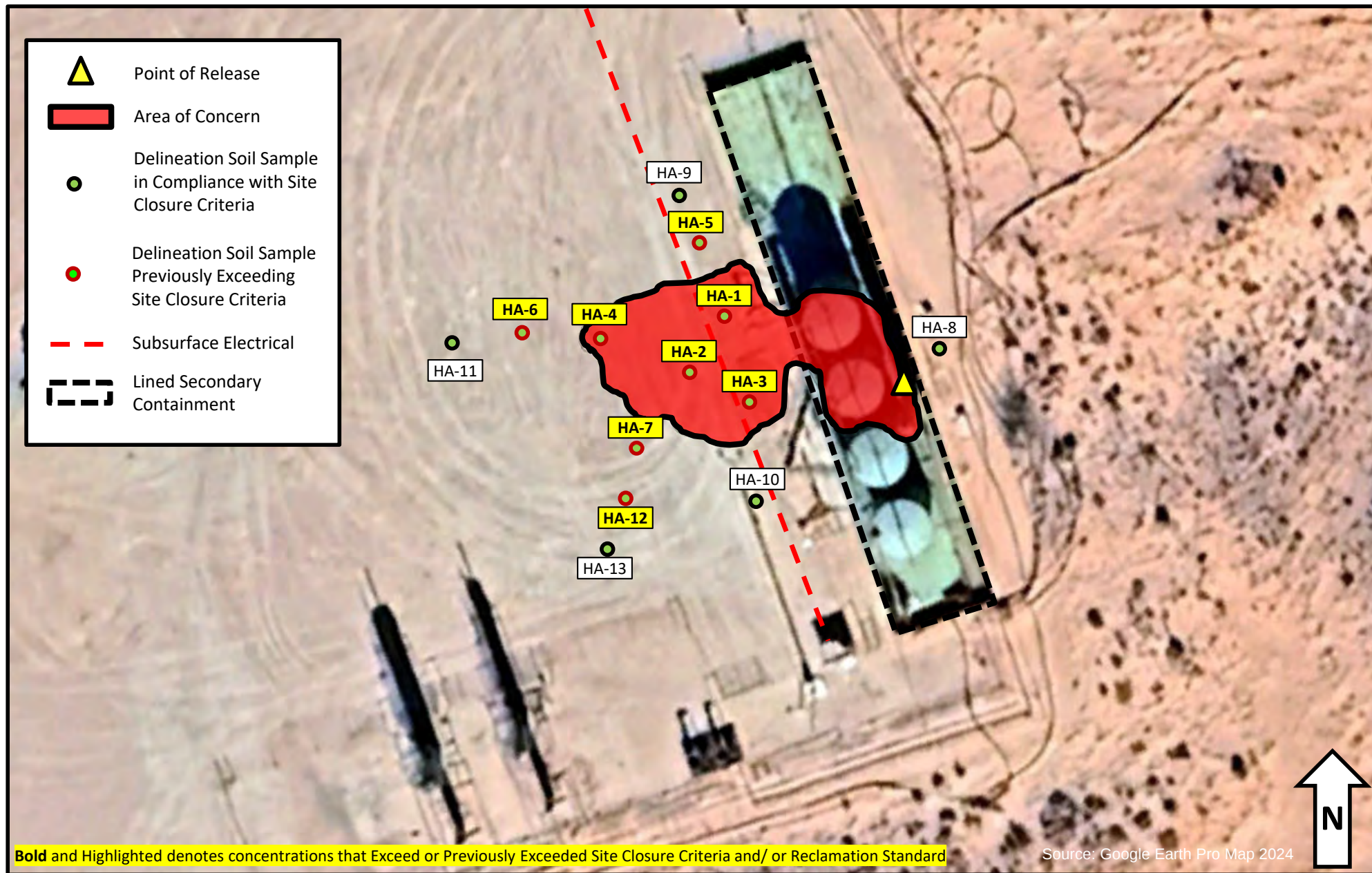
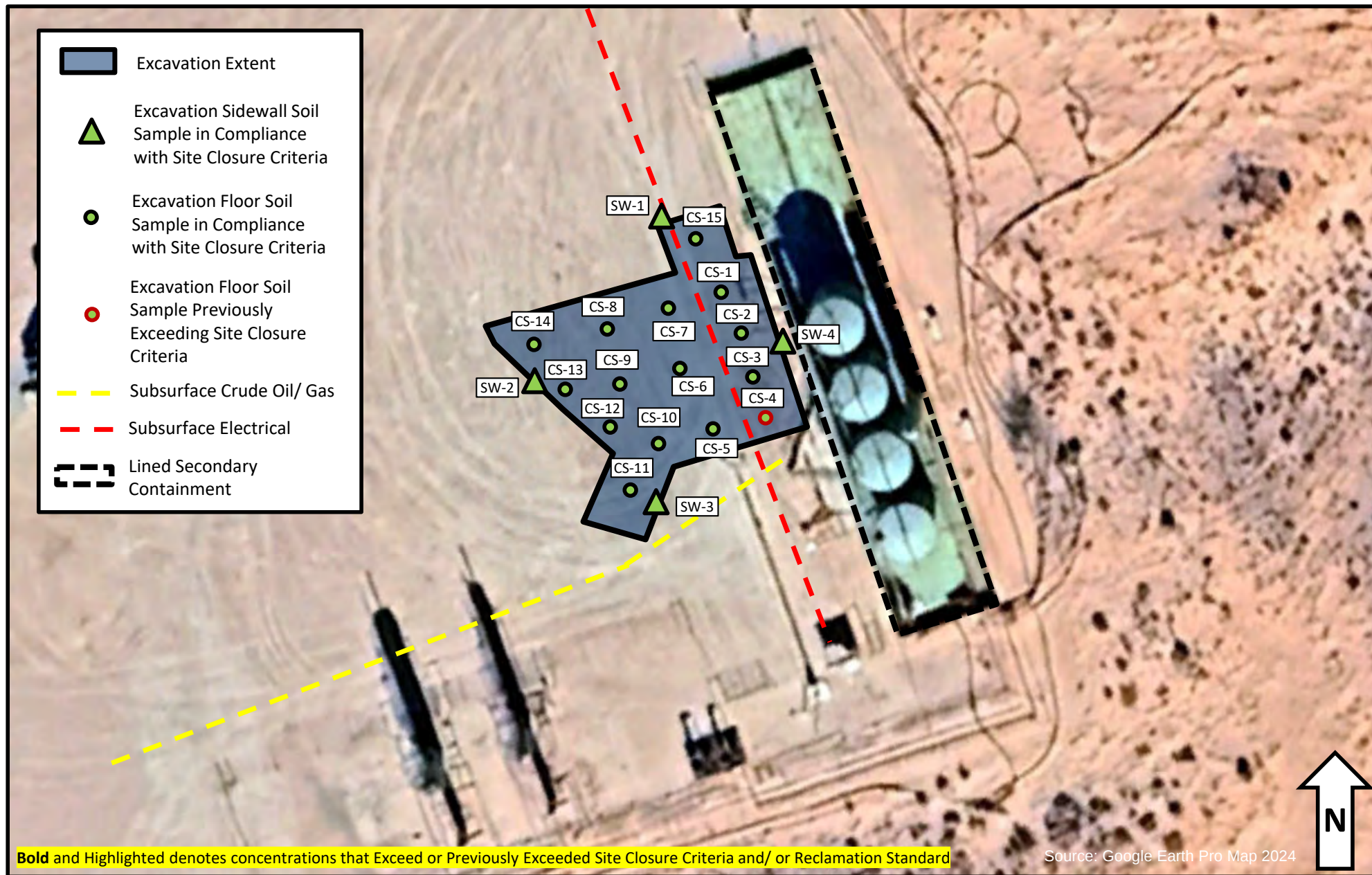


Figure 1B – Karst Potential

Devon Energy Permian – Shaqtus 26 ST 1 Battery
GPS: 32.439701,-103.75201
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.) C-04695 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04695		
	WELL OWNER NAME(S) OXY USA INC				PHONE (OPTIONAL) 575-390-2828		
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUTON	STATE TX	
					ZIP 77210		
WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 14	SECONDS 48.25232	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE N				* DATUM REQUIRED: WGS 84		
	LONGITUDE -103		47	10.4598	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NORTH CORRIDOR WPF <i>Sec 04, T 24S, R 31E S.W., S.E., N.W. 3, 4, 1</i>							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND		NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 1/12/2023	DRILLING ENDED 1/12/2023	DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:						
	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)
				NO CASING IN HOLE			
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

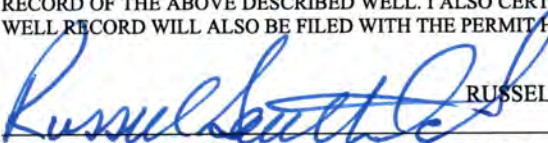
WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. <i>C-4695-POD 1</i>	POD NO. <i>1</i>	TRN NO. <i>740367</i>
LOCATION <i>Mout. 24. 31. 04. 341</i>	WELL TAG ID NO.	PAGE 1 OF 2

USE ON FEB 20 2023

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		RED SAND	Y ✓ N	
	9	18		CALICHIE SAND	Y ✓ N	
	18	20		RED SAND	Y ✓ N	
	20	40		RED SANDY SHALE	Y ✓ N	
	40	50		RED SANDY SHALE	Y ✓ N	
	50	52		LIMESTONE	Y ✓ N	
	52	80		RED SANDY CLAY	Y ✓ N	
	80	110		RED SANDY CLAY	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☒ OTHER – SPECIFY: DRY HOLE					TOTAL ESTIMATED WELL YIELD (gpm): 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:	
	05E 011 FEB 20 2023 09:43	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: RUSSELL SOUTHERLAND		

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	_____ 01/12/2023 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO. C-4695-PD1	POD NO. 1	TRN NO. 740367	
LOCATION N. 24.31.04.341	WELL TAG ID NO.		PAGE 2 OF 2

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE

quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02949 EXPL	NW	NW	SE	34	21S	31E	616140.0	3589231.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	1184	Driller Company:	WEST TEXAS WATER WELL SERVICE
Driller Name:	RONNY KEITH		
Drill Start Date:	2003-08-14	Drill Finish Date:	2003-09-11
Log File Date:	2003-09-23	PCW Rcv Date:	
		Source:	Artesian
Pump Type:		Pipe Discharge Size:	
		Estimated Yield:	
Casing Size:		Depth Well:	970
		Depth Water:	

Water Bearing Stratifications:

Top	Bottom	Description
0	2	Other/Unknown
2	16	Sandstone/Gravel/Conglomerate
16	29	Sandstone/Gravel/Conglomerate
29	95	Sandstone/Gravel/Conglomerate
95	225	Sandstone/Gravel/Conglomerate
225	577	Sandstone/Gravel/Conglomerate
577	610	Sandstone/Gravel/Conglomerate
610	622	Sandstone/Gravel/Conglomerate
622	639	Sandstone/Gravel/Conglomerate
639	662	Sandstone/Gravel/Conglomerate
662	722	Sandstone/Gravel/Conglomerate
722	735	Sandstone/Gravel/Conglomerate
735	754	Sandstone/Gravel/Conglomerate
754	775	Sandstone/Gravel/Conglomerate
775	782	Sandstone/Gravel/Conglomerate

Top	Bottom	Description
782	792	Sandstone/Gravel/Conglomerate
792	863	Sandstone/Gravel/Conglomerate
863	932	Sandstone/Gravel/Conglomerate
932	948	Sandstone/Gravel/Conglomerate
948	970	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
755	773

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/10/25 12:03 PM MST

Point of Diversion Summary

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PHOTO 1: Southwestern view during initial site assessment activities. 12/6/2024

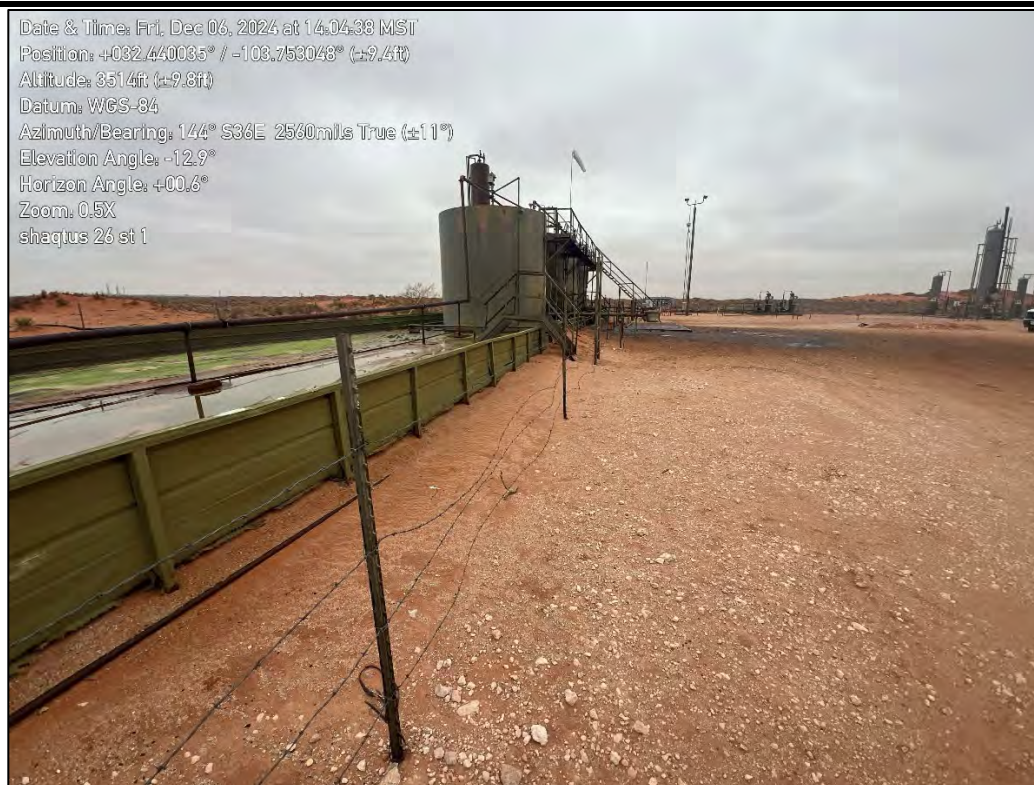


PHOTO 2: Southeastern view during initial site assessment activities. 12/6/2024

Shagtus 26 ST 1 Battery - Closure Request Report
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GPS: 32.311583°, -103.51125°



Date & Time: Fri, Jan 03, 2025 at 09:05:53 MST
Position: +032.439864° / -103.752976° (± 40.1 ft)
Altitude: 3515ft (± 9.8 ft)
Datum: WGS-84
Azimuth/Bearing: 259° S79W 4604mils True ($\pm 11^\circ$)
Elevation Angle: -28.0°
Horizon Angle: +00.1°
Zoom: 0.5X
shaqtus HA-1



PHOTO 3: Southwestern view during delineation activities. 1/3/2025

Date & Time: Fri, Jan 03, 2025 at 11:18:50 MST
Position: +032.439829° / -103.753156° (± 17.0 ft)
Altitude: 3512ft (± 9.8 ft)
Datum: WGS-84
Azimuth/Bearing: 106° S74E 1884mils True ($\pm 12^\circ$)
Elevation Angle: -27.1°
Horizon Angle: -02.0°
Zoom: 0.5X
shaqtus HA-7



PHOTO 4: Southeastern view during delineation activities. 1/3/2025

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PHOTO 5: Southeastern view during delineation activities. 1/3/2025



PHOTO 6: Southeastern view outside of containment during liner inspection activities. 1/17/2025

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PHOTO 7: Northeastern view outside of containment during liner inspection activities. 1/17/2025

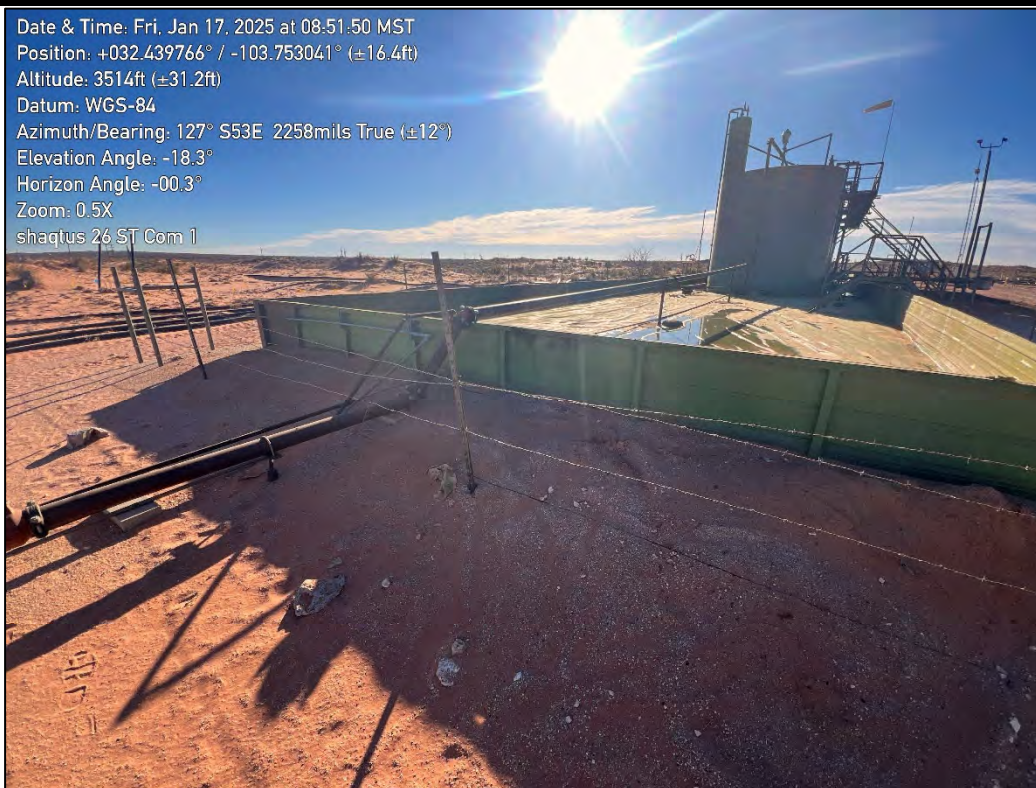


PHOTO 8: Southeastern view outside of containment during liner inspection activities. 1/17/2025

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PHOTO 9: Southwestern view outside of containment during liner inspection activities. 1/17/2025

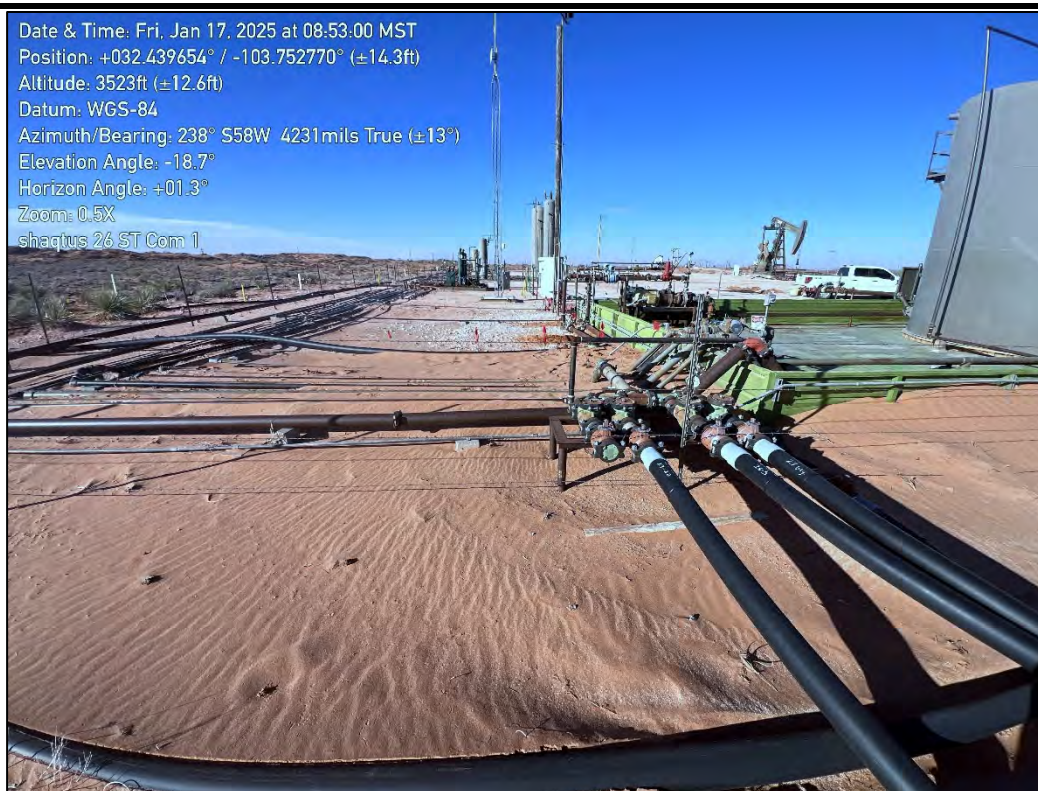


PHOTO 10: Southwestern view outside of containment during liner inspection activities. 1/17/2025

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PHOTO 11: Southeastern view during liner inspection activities. 1/17/2025

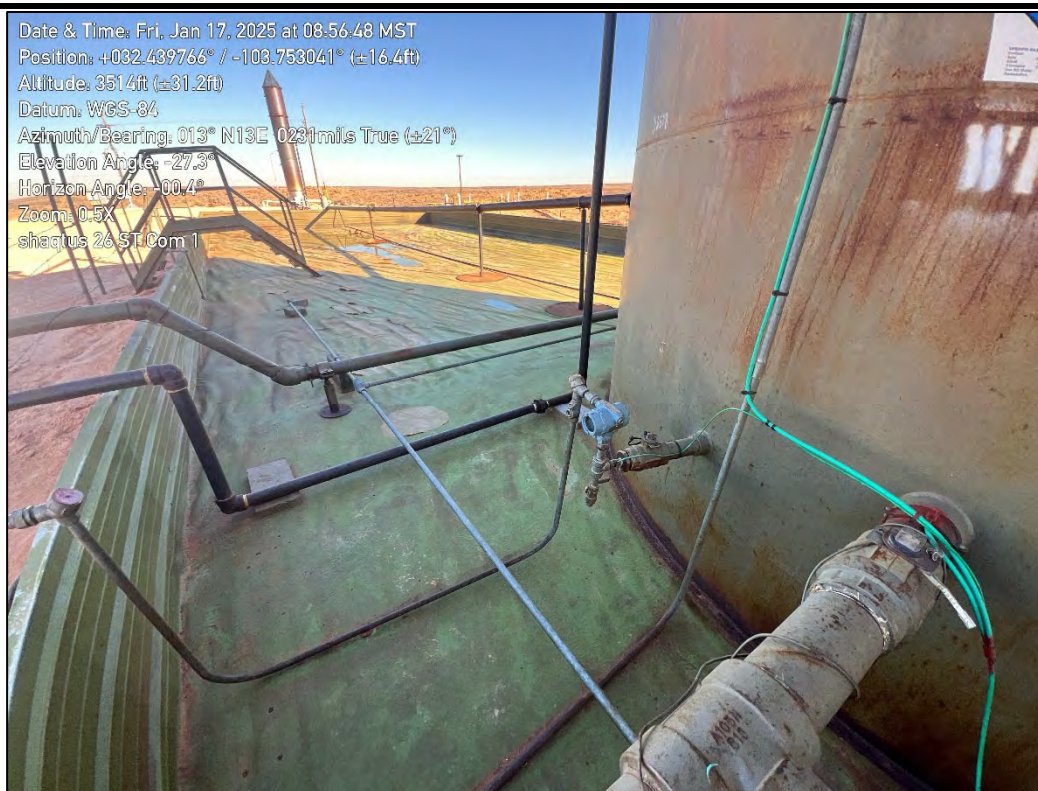


PHOTO 12: Northeastern view during liner inspection activities. 1/17/2025

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PHOTO 13: Southeastern view during liner inspection activities. 1/17/2025

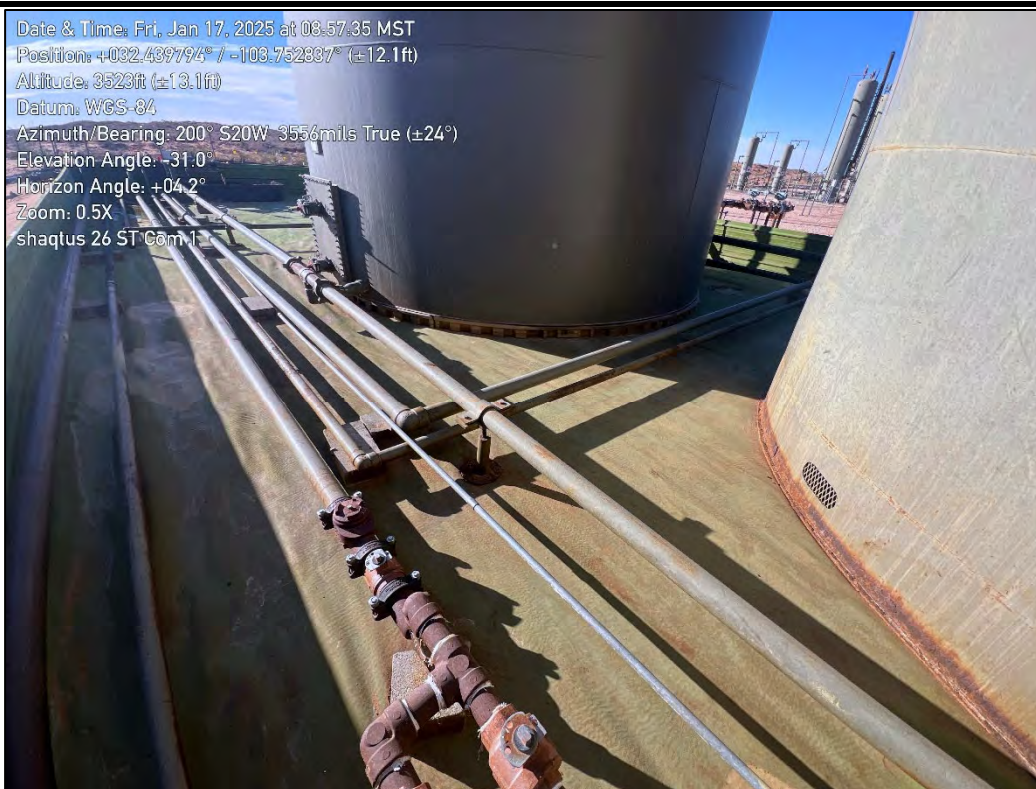


PHOTO 14: Southwestern view during liner inspection activities. 1/17/2025

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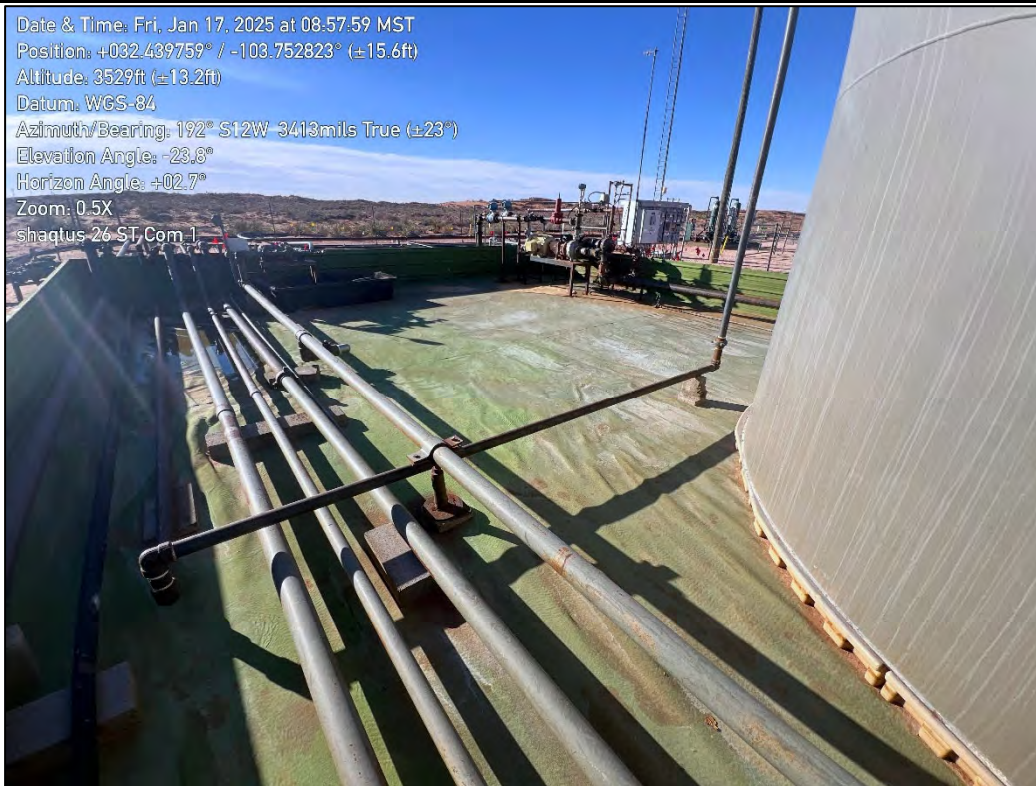


PHOTO 15: Southwestern view during liner inspection activities. 1/17/2025

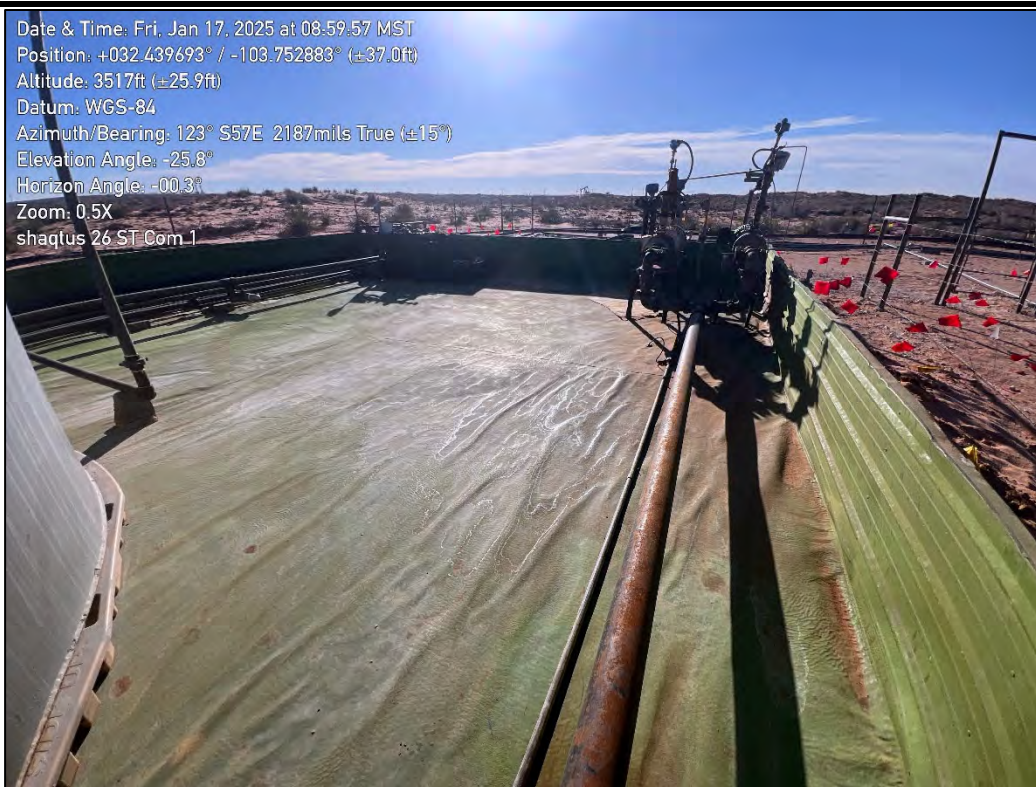


PHOTO 16: Southeastern view during liner inspection activities. 1/17/2025

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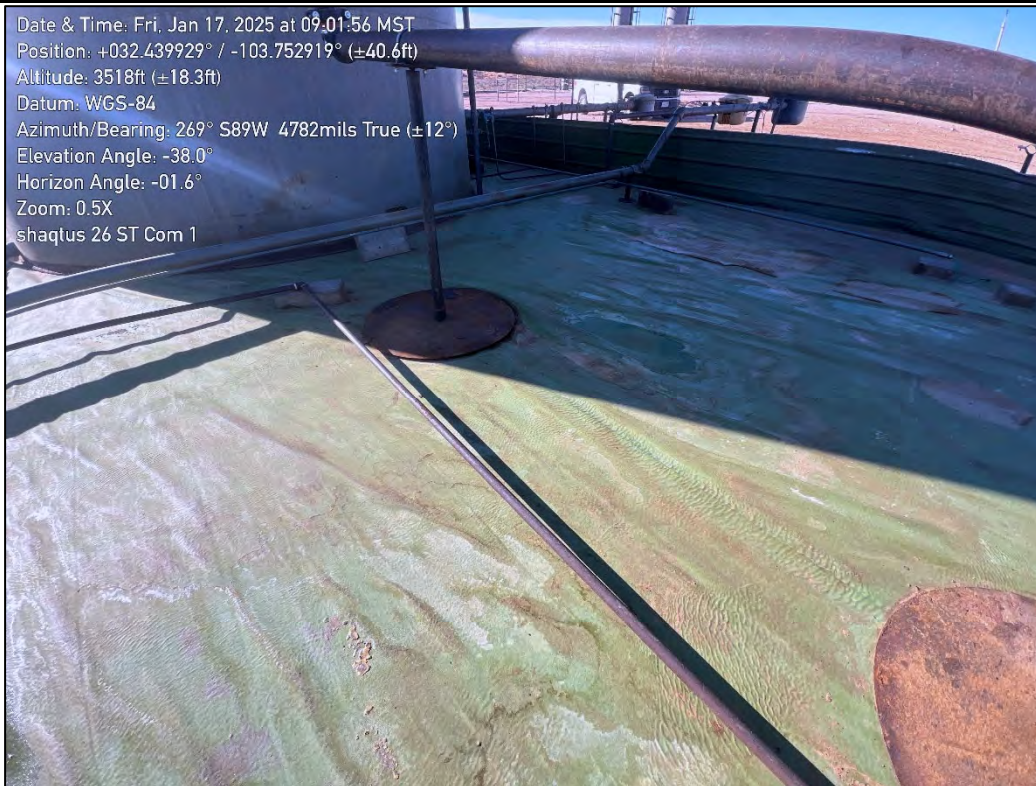


PHOTO 17: Southwestern view during liner inspection activities. 1/17/2025

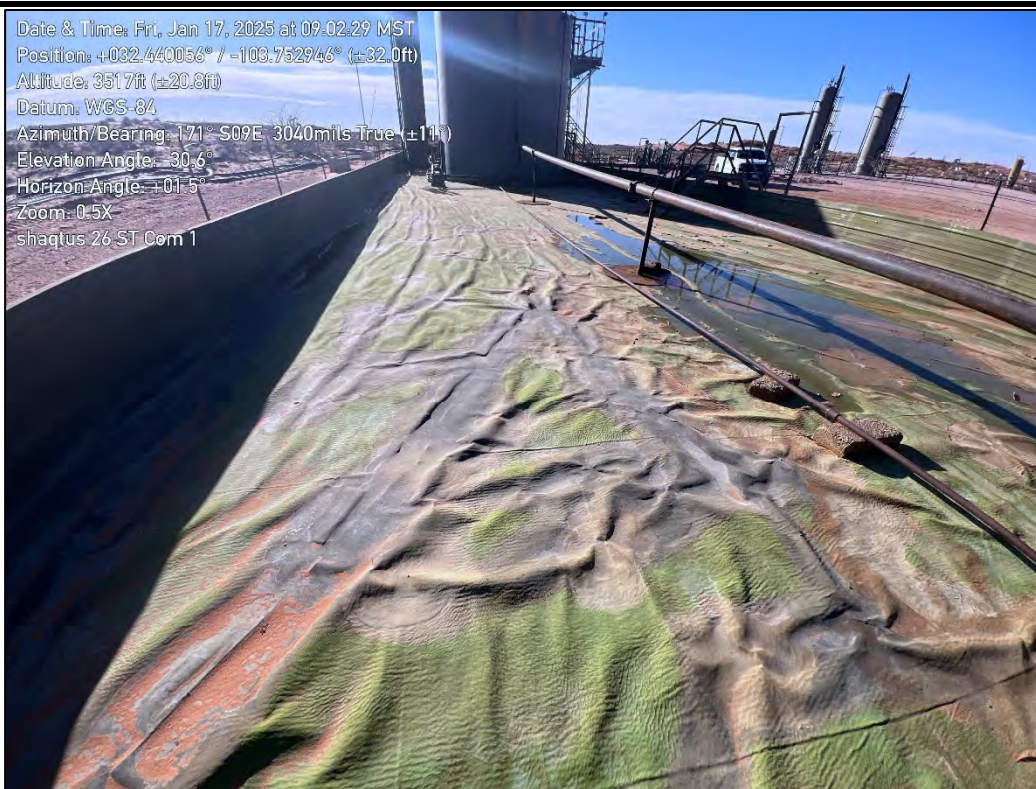


PHOTO 18: Southeastern view during liner inspection activities. 1/17/2025

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PHOTO 19: Southwestern view of excavation extent. 4/7/2025



PHOTO 20: Northeastern view of excavation extent. 4/7/2025

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PHOTO 21: Northwestern view of excavation extent. 4/7/2025



PHOTO 22: Northwestern view of excavation extent. 4/22/2025

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PHOTO 23: Southeastern view after restoration activities. 4/28/2025



PHOTO 24: Northeastern view after restoration activities. 4/28/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Shaqtus 26 ST 1 Battery
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 - nAPP2434144241									
HA-1	01/03/25	0.5	<0.0504	22.3	226	1,010	<50.0	1,240	221
HA-1	01/03/25	1	<0.0497	<0.0994	<49.9	<49.9	<49.9	<49.9	203
HA-1	01/03/25	2	<0.0495	0.126	<50.0	<50.0	<50.0	<50.0	97.0
HA-1	01/03/25	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	111
HA-1	01/03/25	4	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	106
HA-2	01/03/25	0.5	0.267	67.1	1,670	17,100	<999	18,800	243
HA-2	01/03/25	1	<0.0505	0.346	<49.7	182	<49.7	182	56.9
HA-2	01/03/25	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	113
HA-2	01/03/25	3	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	98.5
HA-2	01/03/25	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	124
HA-3	01/03/25	0.5	<0.0503	14.4	<49.8	<49.8	<49.8	<49.8	2,480
HA-3	01/03/25	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	162
HA-3	01/03/25	2	<0.00200	0.00773	<50.0	<50.0	<50.0	<50.0	141
HA-3	01/03/25	3	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	143
HA-3	01/03/25	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	145
HA-4	01/03/25	0.5	0.00258	0.00858	<49.7	2,150	<49.7	2,150	156
HA-4	01/03/25	1	<0.00201	<0.00402	<50.0	69.6	<50.0	69.6	193
HA-4	01/03/25	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	74.9
HA-4	01/03/25	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	92.5
HA-4	01/03/25	4	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	106
HA-5	01/03/25	0.5	<0.00199	<0.00398	<49.7	259	<49.7	259	375
HA-5	01/03/25	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	877
HA-5	01/03/25	2	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	337
HA-5	01/03/25	3	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	215
HA-5	01/03/25	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	180
HA-6	01/03/25	0.5	<0.00198	<0.00396	<49.8	1,610	<49.8	1,610	203
HA-6	01/03/25	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	403
HA-6	01/03/25	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	168
HA-6	01/03/25	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	103
HA-6	01/03/25	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	127



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Shaqtus 26 ST 1 Battery
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 - nAPP2434144241									
HA-7	01/03/25	0.5	<0.00198	<0.00396	<50.0	390	<50.0	390	225
HA-7	01/03/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	213
HA-7	01/03/25	2	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	164
HA-7	01/03/25	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	130
HA-7	01/03/25	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	97.2
HA-8	01/03/25	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	63.6
HA-8	01/03/25	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	93.2
HA-8	01/03/25	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	120
HA-8	01/03/25	3	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	100
HA-8	01/03/25	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	119
HA-9	01/03/25	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	314
HA-9	01/03/25	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	190
HA-10	01/03/25	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	325
HA-10	01/03/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	309
HA-10	01/03/25	2	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	260
HA-10	01/03/25	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	213
HA-11	01/03/25	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	199
HA-11	01/03/25	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	197
HA-12	01/03/25	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,780
HA-12	01/03/25	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1,390
HA-12	01/03/25	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	131
HA-13	01/03/25	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	139
HA-13	01/03/25	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	112
Confirmation Soil Samples - nAPP2434144241									
CS-1	04/07/25	1	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	118
CS-2	04/07/25	1	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	76.7
CS-3	04/07/25	1	<0.00199	<0.00398	<50.2	97.5	<50.2	97.5	134
CS-4	04/07/25	1	<0.00200	0.013	<49.8	290	<49.8	290	185
CS-4	04/22/25	2.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	109



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Shaqtus 26 ST 1 Battery
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 - nAPP2434144241									
CS-5	04/07/25	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	192
CS-6	04/07/25	2	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	128
CS-7	04/07/25	1	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	136
CS-8	04/07/25	1.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	176
CS-9	04/07/25	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	192
CS-10	04/07/25	1	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	256
CS-11	04/07/25	2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	108
CS-12	04/07/25	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	173
CS-13	04/07/25	1	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	118
CS-14	04/07/25	1	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	201
CS-15	04/07/25	2	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	113
SW - 1	04/07/25	0-2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	147
SW - 2	04/07/25	0-2	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	142
SW - 3	04/07/25	0-2	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	79.6
SW - 4	04/07/25	0-2	0.00265	<0.00402	<49.7	<49.7	<49.7	<49.7	172

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.



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 1/10/2025 9:59:01 AM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7529-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



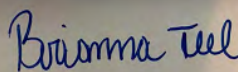
Eurofins Carlsbad

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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1/10/2025 9:59:01 AM

Authorized for release by
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Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7529-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
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
F1	MS and/or MSD recovery 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.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1

Job ID: 890-7529-1

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Job Narrative 890-7529-1

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 1/3/2025 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-7529-1), HA-1 (890-7529-2), HA-1 (890-7529-3), HA-1 (890-7529-4), HA-1 (890-7529-5), HA-2 (890-7529-6), HA-2 (890-7529-7), HA-2 (890-7529-8), HA-2 (890-7529-9), HA-2 (890-7529-10), HA-3 (890-7529-11), HA-3 (890-7529-12), HA-3 (890-7529-13), HA-3 (890-7529-14), HA-3 (890-7529-15), HA-4 (890-7529-16), HA-4 (890-7529-17), HA-4 (890-7529-18), HA-4 (890-7529-19), HA-4 (890-7529-20), HA-5 (890-7529-21), HA-5 (890-7529-22), HA-5 (890-7529-23), HA-5 (890-7529-24), HA-5 (890-7529-25), HA-6 (890-7529-26), HA-6 (890-7529-27), HA-6 (890-7529-28), HA-6 (890-7529-29), HA-6 (890-7529-30), HA-7 (890-7529-31), HA-7 (890-7529-32), HA-7 (890-7529-33), HA-7 (890-7529-34) and HA-7 (890-7529-35).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-99537 and analytical batch 880-99381 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-1 (890-7529-1), HA-2 (890-7529-6), HA-2 (890-7529-7) and HA-3 (890-7529-11). Evidence of matrix interferences is not obvious.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: HA-1 (890-7529-1), HA-1 (890-7529-2), HA-1 (890-7529-3), HA-2 (890-7529-6), HA-2 (890-7529-7) and HA-3 (890-7529-11). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA-2 (890-7529-6). 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.

Diesel Range Organics

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-99721 and analytical batch 880-99794 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99723 and analytical batch 880-99796 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 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99723 and analytical batch 880-99796 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 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-4 (890-7529-19). Percent recoveries are based on the amount spiked.

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Case Narrative

Client: Earth Systems Response and Restoration
Project: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1

Job ID: 890-7529-1 (Continued)

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Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-5 (890-7529-21), HA-7 (890-7529-31) and (LCSD 880-99723/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-2 (890-7529-8), HA-3 (890-7529-12), HA-3 (890-7529-13), HA-3 (890-7529-14) and HA-3 (890-7529-15). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-2 (890-7529-10) and HA-4 (890-7529-17). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-4 (890-7529-16). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-5 (890-7529-22), HA-5 (890-7529-23), HA-5 (890-7529-24), HA-5 (890-7529-25), HA-6 (890-7529-28), HA-6 (890-7529-29), HA-6 (890-7529-30), HA-7 (890-7529-32), HA-7 (890-7529-33), HA-7 (890-7529-34) and HA-7 (890-7529-35). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-6 (890-7529-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-99904 and analytical batch 880-99929 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-99904 and analytical batch 880-99929 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-2 (890-7529-6). 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 continuing calibration blank (CCB) for analytical batch 880-99597 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99573 and analytical batch 880-99597 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 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99574 and analytical batch 880-99671 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: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7529-1

Date Collected: 01/03/25 08:30

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504		mg/Kg		01/06/25 10:53	01/06/25 14:25	25
Toluene	1.27		0.0504		mg/Kg		01/06/25 10:53	01/06/25 14:25	25
Ethylbenzene	4.10		0.0504		mg/Kg		01/06/25 10:53	01/06/25 14:25	25
m-Xylene & p-Xylene	11.8		0.101		mg/Kg		01/06/25 10:53	01/06/25 14:25	25
o-Xylene	5.16		0.0504		mg/Kg		01/06/25 10:53	01/06/25 14:25	25
Xylenes, Total	17.0		0.101		mg/Kg		01/06/25 10:53	01/06/25 14:25	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	274	S1+	70 - 130	01/06/25 10:53	01/06/25 14:25	25
1,4-Difluorobenzene (Surr)	91		70 - 130	01/06/25 10:53	01/06/25 14:25	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	22.3		0.101		mg/Kg			01/06/25 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1240		50.0		mg/Kg			01/08/25 10:53	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	226		50.0		mg/Kg		01/07/25 16:42	01/08/25 10:53	1
Diesel Range Organics (Over C10-C28)	1010	F1	50.0		mg/Kg		01/07/25 16:42	01/08/25 10:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	01/07/25 16:42	01/08/25 10:53	1
o-Terphenyl	90		70 - 130	01/07/25 16:42	01/08/25 10:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		9.92		mg/Kg			01/07/25 22:33	1

Client Sample ID: HA-1

Lab Sample ID: 890-7529-2

Date Collected: 01/03/25 08:35

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		01/06/25 10:53	01/06/25 14:46	25
Toluene	<0.0497	U	0.0497		mg/Kg		01/06/25 10:53	01/06/25 14:46	25
Ethylbenzene	<0.0497	U	0.0497		mg/Kg		01/06/25 10:53	01/06/25 14:46	25
m-Xylene & p-Xylene	<0.0994	U	0.0994		mg/Kg		01/06/25 10:53	01/06/25 14:46	25
o-Xylene	<0.0497	U	0.0497		mg/Kg		01/06/25 10:53	01/06/25 14:46	25
Xylenes, Total	<0.0994	U	0.0994		mg/Kg		01/06/25 10:53	01/06/25 14:46	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	01/06/25 10:53	01/06/25 14:46	25

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7529-2

Date Collected: 01/03/25 08:35

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	01/06/25 10:53	01/06/25 14:46	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0994	U	0.0994		mg/Kg			01/06/25 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 12:09	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		01/07/25 16:42	01/08/25 12:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 12:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/07/25 16:42	01/08/25 12:09	1
o-Terphenyl	78		70 - 130				01/07/25 16:42	01/08/25 12:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		9.92		mg/Kg			01/07/25 22:57	1

Client Sample ID: HA-1

Lab Sample ID: 890-7529-3

Date Collected: 01/03/25 08:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U	0.0495		mg/Kg		01/06/25 10:53	01/06/25 15:06	25
Toluene	<0.0495	U	0.0495		mg/Kg		01/06/25 10:53	01/06/25 15:06	25
Ethylbenzene	<0.0495	U	0.0495		mg/Kg		01/06/25 10:53	01/06/25 15:06	25
m-Xylene & p-Xylene	<0.0990	U	0.0990		mg/Kg		01/06/25 10:53	01/06/25 15:06	25
o-Xylene	0.126		0.0495		mg/Kg		01/06/25 10:53	01/06/25 15:06	25
Xylenes, Total	0.126		0.0990		mg/Kg		01/06/25 10:53	01/06/25 15:06	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/06/25 10:53	01/06/25 15:06	25
1,4-Difluorobenzene (Surr)	88		70 - 130	01/06/25 10:53	01/06/25 15:06	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.126		0.0990		mg/Kg			01/06/25 15:06	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			01/08/25 12:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7529-3

Date Collected: 01/03/25 08:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/07/25 16:42	01/08/25 12:25	1
o-Terphenyl	72		70 - 130				01/07/25 16:42	01/08/25 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.0		9.96		mg/Kg			01/07/25 23:05	1

Client Sample ID: HA-1

Lab Sample ID: 890-7529-4

Date Collected: 01/03/25 08:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/06/25 10:53	01/06/25 12:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:53	01/06/25 12:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:53	01/06/25 12:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:53	01/06/25 12:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:53	01/06/25 12:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:53	01/06/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				01/06/25 10:53	01/06/25 12:43	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/06/25 10:53	01/06/25 12:43	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			01/06/25 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 12:39	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		01/07/25 16:42	01/08/25 12:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 12:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/07/25 16:42	01/08/25 12:39	1
o-Terphenyl	74		70 - 130				01/07/25 16:42	01/08/25 12:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7529-4

Date Collected: 01/03/25 08:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		9.98		mg/Kg			01/07/25 23:13	1

Client Sample ID: HA-1

Lab Sample ID: 890-7529-5

Date Collected: 01/03/25 08:50

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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		01/06/25 10:53	01/06/25 13:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 13:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 13:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 10:53	01/06/25 13:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 13:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 10:53	01/06/25 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				01/06/25 10:53	01/06/25 13:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/06/25 10:53	01/06/25 13:03	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			01/06/25 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 12:55	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		01/07/25 16:42	01/08/25 12:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 12:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/07/25 16:42	01/08/25 12:55	1
o-Terphenyl	72		70 - 130				01/07/25 16:42	01/08/25 12:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.90		mg/Kg			01/07/25 23:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7529-6

Date Collected: 01/03/25 09:00

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.267		0.0502		mg/Kg		01/06/25 10:53	01/06/25 15:27	25
Toluene	8.49		0.0502		mg/Kg		01/06/25 10:53	01/06/25 15:27	25
Ethylbenzene	7.48		0.0502		mg/Kg		01/06/25 10:53	01/06/25 15:27	25
m-Xylene & p-Xylene	42.8		0.803		mg/Kg		01/07/25 10:06	01/07/25 19:18	200
o-Xylene	8.02		0.0502		mg/Kg		01/06/25 10:53	01/06/25 15:27	25
Xylenes, Total	60.4		0.803		mg/Kg		01/07/25 10:06	01/07/25 19:18	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	284	S1+	70 - 130	01/06/25 10:53	01/06/25 15:27	25
1,4-Difluorobenzene (Surr)	87		70 - 130	01/06/25 10:53	01/06/25 15:27	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	67.1		0.803		mg/Kg			01/07/25 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18800		999		mg/Kg			01/09/25 14:34	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	1670		999		mg/Kg		01/09/25 10:11	01/09/25 14:34	20
Diesel Range Organics (Over C10-C28)	17100		999		mg/Kg		01/09/25 10:11	01/09/25 14:34	20
Oil Range Organics (Over C28-C36)	<999	U	999		mg/Kg		01/09/25 10:11	01/09/25 14:34	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	171	S1+	70 - 130	01/09/25 10:11	01/09/25 14:34	20
o-Terphenyl	466	S1+	70 - 130	01/09/25 10:11	01/09/25 14:34	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		10.0		mg/Kg			01/07/25 23:44	1

Client Sample ID: HA-2

Lab Sample ID: 890-7529-7

Date Collected: 01/03/25 09:05

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0505	U	0.0505		mg/Kg		01/06/25 10:53	01/06/25 15:47	25
Toluene	0.189		0.0505		mg/Kg		01/06/25 10:53	01/06/25 15:47	25
Ethylbenzene	<0.0505	U	0.0505		mg/Kg		01/06/25 10:53	01/06/25 15:47	25
m-Xylene & p-Xylene	0.157		0.101		mg/Kg		01/06/25 10:53	01/06/25 15:47	25
o-Xylene	<0.0505	U	0.0505		mg/Kg		01/06/25 10:53	01/06/25 15:47	25
Xylenes, Total	0.157		0.101		mg/Kg		01/06/25 10:53	01/06/25 15:47	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	01/06/25 10:53	01/06/25 15:47	25

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7529-7

Date Collected: 01/03/25 09:05

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	01/06/25 10:53	01/06/25 15:47	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.346		0.101		mg/Kg			01/06/25 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	182		49.7		mg/Kg			01/08/25 13:24	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	<49.7	U	49.7		mg/Kg		01/07/25 16:42	01/08/25 13:24	1
Diesel Range Organics (Over C10-C28)	182		49.7		mg/Kg		01/07/25 16:42	01/08/25 13:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 16:42	01/08/25 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/07/25 16:42	01/08/25 13:24	1
o-Terphenyl	77		70 - 130				01/07/25 16:42	01/08/25 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.9		10.0		mg/Kg			01/07/25 23:52	1

Client Sample ID: HA-2

Lab Sample ID: 890-7529-8

Date Collected: 01/03/25 09:10

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/06/25 10:53	01/06/25 13:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 13:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 13:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 10:53	01/06/25 13:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 13:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 10:53	01/06/25 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/06/25 10:53	01/06/25 13:24	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/06/25 10:53	01/06/25 13:24	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			01/06/25 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 13:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7529-8

Date Collected: 01/03/25 09:10

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 13:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 13:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/07/25 16:42	01/08/25 13:38	1
o-Terphenyl	66	S1-	70 - 130				01/07/25 16:42	01/08/25 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.0		mg/Kg			01/08/25 00:00	1

Client Sample ID: HA-2

Lab Sample ID: 890-7529-9

Date Collected: 01/03/25 09:15

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/06/25 10:53	01/06/25 13:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 13:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 13:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/06/25 10:53	01/06/25 13:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 13:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/06/25 10:53	01/06/25 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				01/06/25 10:53	01/06/25 13:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130				01/06/25 10:53	01/06/25 13:44	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			01/06/25 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 14:07	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	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 14:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 14:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/07/25 16:42	01/08/25 14:07	1
o-Terphenyl	70		70 - 130				01/07/25 16:42	01/08/25 14:07	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7529-9

Date Collected: 01/03/25 09:15

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.5		10.0		mg/Kg			01/08/25 00:08	1

Client Sample ID: HA-2

Lab Sample ID: 890-7529-10

Date Collected: 01/03/25 09:20

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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		01/06/25 10:53	01/06/25 14:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 14:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 14:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/25 10:53	01/06/25 14:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 14:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/25 10:53	01/06/25 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/06/25 10:53	01/06/25 14:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130				01/06/25 10:53	01/06/25 14:05	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			01/06/25 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/08/25 14:21	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		01/07/25 16:42	01/08/25 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 14:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/07/25 16:42	01/08/25 14:21	1
o-Terphenyl	66	S1-	70 - 130				01/07/25 16:42	01/08/25 14:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.1		mg/Kg			01/08/25 00:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7529-11

Date Collected: 01/03/25 09:25

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		01/06/25 10:53	01/06/25 20:15	25
Toluene	0.586		0.0503		mg/Kg		01/06/25 10:53	01/06/25 20:15	25
Ethylbenzene	2.86		0.0503		mg/Kg		01/06/25 10:53	01/06/25 20:15	25
m-Xylene & p-Xylene	7.84		0.101		mg/Kg		01/06/25 10:53	01/06/25 20:15	25
o-Xylene	3.09		0.0503		mg/Kg		01/06/25 10:53	01/06/25 20:15	25
Xylenes, Total	10.9		0.101		mg/Kg		01/06/25 10:53	01/06/25 20:15	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	261	S1+	70 - 130	01/06/25 10:53	01/06/25 20:15	25
1,4-Difluorobenzene (Surr)	94		70 - 130	01/06/25 10:53	01/06/25 20:15	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.4		0.101		mg/Kg			01/06/25 20:15	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			01/08/25 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 14:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 14:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	01/07/25 16:42	01/08/25 14:37	1
o-Terphenyl	81		70 - 130	01/07/25 16:42	01/08/25 14:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2480	F1	50.4		mg/Kg			01/08/25 00:23	5

Client Sample ID: HA-3

Lab Sample ID: 890-7529-12

Date Collected: 01/03/25 09:30

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/06/25 10:53	01/06/25 17:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:53	01/06/25 17:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:53	01/06/25 17:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:53	01/06/25 17:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:53	01/06/25 17:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:53	01/06/25 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	01/06/25 10:53	01/06/25 17:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7529-12

Date Collected: 01/03/25 09:30

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	01/06/25 10:53	01/06/25 17:10	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			01/06/25 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 14:51	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		01/07/25 16:42	01/08/25 14:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 14:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/07/25 16:42	01/08/25 14:51	1
o-Terphenyl	67	S1-	70 - 130				01/07/25 16:42	01/08/25 14:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		9.94		mg/Kg			01/08/25 00:47	1

Client Sample ID: HA-3

Lab Sample ID: 890-7529-13

Date Collected: 01/03/25 09:35

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/06/25 10:53	01/06/25 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 17:31	1
m-Xylene & p-Xylene	0.00458		0.00399		mg/Kg		01/06/25 10:53	01/06/25 17:31	1
o-Xylene	0.00315		0.00200		mg/Kg		01/06/25 10:53	01/06/25 17:31	1
Xylenes, Total	0.00773		0.00399		mg/Kg		01/06/25 10:53	01/06/25 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/06/25 10:53	01/06/25 17:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/06/25 10:53	01/06/25 17:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00773		0.00399		mg/Kg			01/06/25 17:31	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			01/08/25 15:06	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7529-13

Date Collected: 01/03/25 09:35

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/07/25 16:42	01/08/25 15:06	1
o-Terphenyl	68	S1-	70 - 130				01/07/25 16:42	01/08/25 15:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		9.96		mg/Kg			01/08/25 00:55	1

Client Sample ID: HA-3

Lab Sample ID: 890-7529-14

Date Collected: 01/03/25 09:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/06/25 10:53	01/06/25 17:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 17:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 17:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/06/25 10:53	01/06/25 17:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 17:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/06/25 10:53	01/06/25 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/06/25 10:53	01/06/25 17:51	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/06/25 10:53	01/06/25 17:51	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			01/06/25 17:51	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			01/08/25 15:22	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		01/07/25 16:42	01/08/25 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/07/25 16:42	01/08/25 15:22	1
o-Terphenyl	69	S1-	70 - 130				01/07/25 16:42	01/08/25 15:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7529-14

Date Collected: 01/03/25 09:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		9.94		mg/Kg			01/08/25 01:18	1

Client Sample ID: HA-3

Lab Sample ID: 890-7529-15

Date Collected: 01/03/25 09:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 10:53	01/06/25 18:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 10:53	01/06/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/06/25 10:53	01/06/25 18:12	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/06/25 10:53	01/06/25 18:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 18:12	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			01/08/25 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 15:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 15:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:42	01/08/25 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/07/25 16:42	01/08/25 15:36	1
o-Terphenyl	68	S1-	70 - 130				01/07/25 16:42	01/08/25 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		9.96		mg/Kg			01/08/25 01:26	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7529-16

Date Collected: 01/03/25 09:50

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00258		0.00200		mg/Kg		01/06/25 10:53	01/06/25 18:32	1
Toluene	0.00600		0.00200		mg/Kg		01/06/25 10:53	01/06/25 18:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 18:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 10:53	01/06/25 18:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 18:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 10:53	01/06/25 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/06/25 10:53	01/06/25 18:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/06/25 10:53	01/06/25 18:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00858		0.00401		mg/Kg			01/06/25 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2150		49.7		mg/Kg			01/08/25 15:51	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		01/07/25 16:42	01/08/25 15:51	1
Diesel Range Organics (Over C10-C28)	2150		49.7		mg/Kg		01/07/25 16:42	01/08/25 15:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 16:42	01/08/25 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	35	S1-	70 - 130	01/07/25 16:42	01/08/25 15:51	1
o-Terphenyl	92		70 - 130	01/07/25 16:42	01/08/25 15:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		9.94		mg/Kg			01/08/25 01:34	1

Client Sample ID: HA-4

Lab Sample ID: 890-7529-17

Date Collected: 01/03/25 09:55

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 10:53	01/06/25 18:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 10:53	01/06/25 18:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 10:53	01/06/25 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/06/25 10:53	01/06/25 18:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7529-17

Date Collected: 01/03/25 09:55

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	01/06/25 10:53	01/06/25 18:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.6		50.0		mg/Kg			01/08/25 16:06	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		01/07/25 16:42	01/08/25 16:06	1
Diesel Range Organics (Over C10-C28)	69.6		50.0		mg/Kg		01/07/25 16:42	01/08/25 16:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/07/25 16:42	01/08/25 16:06	1
o-Terphenyl	67	S1-	70 - 130				01/07/25 16:42	01/08/25 16:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		9.94		mg/Kg			01/08/25 01:42	1

Client Sample ID: HA-4

Lab Sample ID: 890-7529-18

Date Collected: 01/03/25 10:00

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/06/25 10:53	01/06/25 19:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 19:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:53	01/06/25 19:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 10:53	01/06/25 19:13	1
o-Xylene	0.00261		0.00202		mg/Kg		01/06/25 10:53	01/06/25 19:13	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 10:53	01/06/25 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/06/25 10:53	01/06/25 19:13	1
1,4-Difluorobenzene (Surr)	73		70 - 130	01/06/25 10:53	01/06/25 19:13	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			01/06/25 19:13	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			01/08/25 16:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7529-18

Date Collected: 01/03/25 10:00

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:42	01/08/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/07/25 16:42	01/08/25 16:22	1
o-Terphenyl	70		70 - 130				01/07/25 16:42	01/08/25 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		9.92		mg/Kg			01/08/25 01:50	1

Client Sample ID: HA-4

Lab Sample ID: 890-7529-19

Date Collected: 01/03/25 10:05

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/06/25 10:53	01/06/25 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 19:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 19:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 10:53	01/06/25 19:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 19:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 10:53	01/06/25 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/06/25 10:53	01/06/25 19:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/06/25 10:53	01/06/25 19:34	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			01/06/25 19:34	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			01/08/25 10:53	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 F1	50.0		mg/Kg		01/07/25 16:45	01/08/25 10:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		01/07/25 16:45	01/08/25 10:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 10:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				01/07/25 16:45	01/08/25 10:53	1
o-Terphenyl	62	S1-	70 - 130				01/07/25 16:45	01/08/25 10:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7529-19

Date Collected: 01/03/25 10:05

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.5		10.1		mg/Kg			01/08/25 01:58	1

Client Sample ID: HA-4

Lab Sample ID: 890-7529-20

Date Collected: 01/03/25 10:10

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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		01/06/25 10:53	01/06/25 19:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 19:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 19:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/06/25 10:53	01/06/25 19:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 10:53	01/06/25 19:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/06/25 10:53	01/06/25 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				01/06/25 10:53	01/06/25 19:54	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/06/25 10:53	01/06/25 19:54	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			01/06/25 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 12:09	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		01/07/25 16:45	01/08/25 12:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 12:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/07/25 16:45	01/08/25 12:09	1
o-Terphenyl	72		70 - 130				01/07/25 16:45	01/08/25 12:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		10.0		mg/Kg			01/08/25 02:05	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7529-21

Date Collected: 01/03/25 10:15

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/06/25 11:07	01/06/25 14:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 11:07	01/06/25 14:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 11:07	01/06/25 14:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 11:07	01/06/25 14:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 11:07	01/06/25 14:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 11:07	01/06/25 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/06/25 11:07	01/06/25 14:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/06/25 11:07	01/06/25 14:03	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			01/06/25 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	259		49.7		mg/Kg			01/08/25 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 12:25	1
Diesel Range Organics (Over C10-C28)	259		49.7		mg/Kg		01/07/25 16:45	01/08/25 12:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	01/07/25 16:45	01/08/25 12:25	1
o-Terphenyl	72		70 - 130	01/07/25 16:45	01/08/25 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	375		10.1		mg/Kg			01/08/25 18:07	1

Client Sample ID: HA-5

Lab Sample ID: 890-7529-22

Date Collected: 01/03/25 10:20

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/06/25 11:07	01/06/25 14:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 11:07	01/06/25 14:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 11:07	01/06/25 14:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 11:07	01/06/25 14:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 11:07	01/06/25 14:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 11:07	01/06/25 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/06/25 11:07	01/06/25 14:24	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7529-22

Date Collected: 01/03/25 10:20

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	01/06/25 11:07	01/06/25 14:24	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			01/06/25 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 12:39	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	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 12:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 12:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/07/25 16:45	01/08/25 12:39	1
o-Terphenyl	67	S1-	70 - 130				01/07/25 16:45	01/08/25 12:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	877		10.0		mg/Kg			01/08/25 18:15	1

Client Sample ID: HA-5

Lab Sample ID: 890-7529-23

Date Collected: 01/03/25 10:25

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/06/25 11:07	01/06/25 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 14:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 11:07	01/06/25 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 14:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 11:07	01/06/25 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/06/25 11:07	01/06/25 14:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/06/25 11:07	01/06/25 14:44	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			01/06/25 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/08/25 12:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7529-23

Date Collected: 01/03/25 10:25

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 12:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 12:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/07/25 16:45	01/08/25 12:55	1
o-Terphenyl	65	S1-	70 - 130				01/07/25 16:45	01/08/25 12:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		10.1		mg/Kg			01/08/25 18:23	1

Client Sample ID: HA-5

Lab Sample ID: 890-7529-24

Date Collected: 01/03/25 10:30

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/06/25 11:07	01/06/25 15:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 11:07	01/06/25 15:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 11:07	01/06/25 15:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/25 11:07	01/06/25 15:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 11:07	01/06/25 15:04	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/25 11:07	01/06/25 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/06/25 11:07	01/06/25 15:04	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/06/25 11:07	01/06/25 15:04	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			01/06/25 15:04	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			01/08/25 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				01/07/25 16:45	01/08/25 13:10	1
o-Terphenyl	60	S1-	70 - 130				01/07/25 16:45	01/08/25 13:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7529-24

Date Collected: 01/03/25 10:30

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		9.92		mg/Kg			01/08/25 18:31	1

Client Sample ID: HA-5

Lab Sample ID: 890-7529-25

Date Collected: 01/03/25 10:35

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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		01/06/25 11:07	01/06/25 15:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 11:07	01/06/25 15:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 11:07	01/06/25 15:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 11:07	01/06/25 15:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 11:07	01/06/25 15:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 11:07	01/06/25 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/06/25 11:07	01/06/25 15:25	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/06/25 11:07	01/06/25 15:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/25 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 13:24	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	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 13:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 13:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				01/07/25 16:45	01/08/25 13:24	1
o-Terphenyl	59	S1-	70 - 130				01/07/25 16:45	01/08/25 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		9.92		mg/Kg			01/08/25 18:54	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7529-26

Date Collected: 01/03/25 10:40

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/06/25 11:07	01/06/25 15:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/06/25 11:07	01/06/25 15:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/06/25 11:07	01/06/25 15:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/06/25 11:07	01/06/25 15:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/06/25 11:07	01/06/25 15:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/06/25 11:07	01/06/25 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/06/25 11:07	01/06/25 15:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/06/25 11:07	01/06/25 15:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/25 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1610		49.8		mg/Kg			01/08/25 13:38	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		01/07/25 16:45	01/08/25 13:38	1
Diesel Range Organics (Over C10-C28)	1610		49.8		mg/Kg		01/07/25 16:45	01/08/25 13:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	01/07/25 16:45	01/08/25 13:38	1
o-Terphenyl	157	S1+	70 - 130	01/07/25 16:45	01/08/25 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		9.96		mg/Kg			01/08/25 19:02	1

Client Sample ID: HA-6

Lab Sample ID: 890-7529-27

Date Collected: 01/03/25 10:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/25 11:07	01/06/25 16:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/25 11:07	01/06/25 16:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/25 11:07	01/06/25 16:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/25 11:07	01/06/25 16:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/25 11:07	01/06/25 16:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/25 11:07	01/06/25 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/06/25 11:07	01/06/25 16:06	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7529-27

Date Collected: 01/03/25 10:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	01/06/25 11:07	01/06/25 16:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/25 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 14:07	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	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 14:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 14:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/07/25 16:45	01/08/25 14:07	1
o-Terphenyl	73		70 - 130				01/07/25 16:45	01/08/25 14:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		10.1		mg/Kg			01/08/25 19:10	1

Client Sample ID: HA-6

Lab Sample ID: 890-7529-28

Date Collected: 01/03/25 10:50

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/06/25 11:07	01/06/25 16:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 16:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 11:07	01/06/25 16:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 16:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 11:07	01/06/25 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/06/25 11:07	01/06/25 16:26	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/06/25 11:07	01/06/25 16:26	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			01/06/25 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 14:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7529-28

Date Collected: 01/03/25 10:50

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 14:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				01/07/25 16:45	01/08/25 14:21	1
o-Terphenyl	56	S1-	70 - 130				01/07/25 16:45	01/08/25 14:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		9.94		mg/Kg			01/08/25 19:18	1

Client Sample ID: HA-6

Lab Sample ID: 890-7529-29

Date Collected: 01/03/25 10:55

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/06/25 11:07	01/06/25 16:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 16:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 16:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/25 11:07	01/06/25 16:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 16:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/25 11:07	01/06/25 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/06/25 11:07	01/06/25 16:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/06/25 11:07	01/06/25 16:46	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			01/06/25 16:46	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			01/08/25 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 14:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 14:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				01/07/25 16:45	01/08/25 14:37	1
o-Terphenyl	59	S1-	70 - 130				01/07/25 16:45	01/08/25 14:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7529-29

Date Collected: 01/03/25 10:55

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		9.96		mg/Kg			01/08/25 19:26	1

Client Sample ID: HA-6

Lab Sample ID: 890-7529-30

Date Collected: 01/03/25 11:00

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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		01/07/25 13:39	01/08/25 00:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/25 13:39	01/08/25 00:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/25 13:39	01/08/25 00:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/25 13:39	01/08/25 00:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/25 13:39	01/08/25 00:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/25 13:39	01/08/25 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				01/07/25 13:39	01/08/25 00:28	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/07/25 13:39	01/08/25 00:28	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			01/08/25 00:28	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			01/08/25 14:51	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		01/07/25 16:45	01/08/25 14:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 14:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				01/07/25 16:45	01/08/25 14:51	1
o-Terphenyl	60	S1-	70 - 130				01/07/25 16:45	01/08/25 14:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127	F1	9.94		mg/Kg			01/08/25 19:34	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-7529-31

Date Collected: 01/03/25 11:05

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 13:39	01/08/25 00:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/25 13:39	01/08/25 00:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/25 13:39	01/08/25 00:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/25 13:39	01/08/25 00:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/07/25 13:39	01/08/25 00:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/25 13:39	01/08/25 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/07/25 13:39	01/08/25 00:49	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/07/25 13:39	01/08/25 00:49	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			01/08/25 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	390		50.0		mg/Kg			01/08/25 15:06	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		01/07/25 16:45	01/08/25 15:06	1
Diesel Range Organics (Over C10-C28)	390		50.0		mg/Kg		01/07/25 16:45	01/08/25 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	01/07/25 16:45	01/08/25 15:06	1
o-Terphenyl	75		70 - 130	01/07/25 16:45	01/08/25 15:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	225		9.92		mg/Kg			01/08/25 19:57	1

Client Sample ID: HA-7

Lab Sample ID: 890-7529-32

Date Collected: 01/03/25 11:10

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 13:39	01/08/25 01:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 13:39	01/08/25 01:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 13:39	01/08/25 01:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 13:39	01/08/25 01:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 13:39	01/08/25 01:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 13:39	01/08/25 01:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	01/07/25 13:39	01/08/25 01:09	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-7529-32

Date Collected: 01/03/25 11:10

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	01/07/25 13:39	01/08/25 01:09	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			01/08/25 01:09	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			01/08/25 15:22	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		01/07/25 16:45	01/08/25 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				01/07/25 16:45	01/08/25 15:22	1
o-Terphenyl	57	S1-	70 - 130				01/07/25 16:45	01/08/25 15:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		10.1		mg/Kg			01/08/25 20:05	1

Client Sample ID: HA-7

Lab Sample ID: 890-7529-33

Date Collected: 01/03/25 11:15

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/07/25 13:39	01/08/25 01:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/08/25 01:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/08/25 01:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 13:39	01/08/25 01:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/08/25 01:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 13:39	01/08/25 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/07/25 13:39	01/08/25 01:30	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/07/25 13:39	01/08/25 01:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/08/25 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/08/25 15:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-7529-33

Date Collected: 01/03/25 11:15

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 15:36	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 15:36	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 16:45	01/08/25 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				01/07/25 16:45	01/08/25 15:36	1
o-Terphenyl	62	S1-	70 - 130				01/07/25 16:45	01/08/25 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		10.1		mg/Kg			01/08/25 20:29	1

Client Sample ID: HA-7

Lab Sample ID: 890-7529-34

Date Collected: 01/03/25 11:20

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/07/25 13:39	01/08/25 03:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/08/25 03:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/08/25 03:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/25 13:39	01/08/25 03:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/08/25 03:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/25 13:39	01/08/25 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/07/25 13:39	01/08/25 03:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/07/25 13:39	01/08/25 03:03	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			01/08/25 03:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 15:51	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		01/07/25 16:45	01/08/25 15:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 15:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:45	01/08/25 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				01/07/25 16:45	01/08/25 15:51	1
o-Terphenyl	57	S1-	70 - 130				01/07/25 16:45	01/08/25 15:51	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-7529-34

Date Collected: 01/03/25 11:20

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10.0		mg/Kg			01/08/25 20:37	1

Client Sample ID: HA-7

Lab Sample ID: 890-7529-35

Date Collected: 01/03/25 11:25

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 13:39	01/08/25 03:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 13:39	01/08/25 03:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 13:39	01/08/25 03:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 13:39	01/08/25 03:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 13:39	01/08/25 03:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 13:39	01/08/25 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				01/07/25 13:39	01/08/25 03:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/07/25 13:39	01/08/25 03:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/08/25 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/08/25 16:06	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		01/07/25 16:45	01/08/25 16:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 16:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:45	01/08/25 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				01/07/25 16:45	01/08/25 16:06	1
o-Terphenyl	57	S1-	70 - 130				01/07/25 16:45	01/08/25 16:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.2		10.1		mg/Kg			01/08/25 20:44	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
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	DFBZ1
		(70-130)	(70-130)
890-7529-1	HA-1	274 S1+	91
890-7529-2	HA-1	124	94
890-7529-3	HA-1	112	88
890-7529-4	HA-1	88	90
890-7529-4 MS	HA-1	85	95
890-7529-4 MSD	HA-1	93	102
890-7529-5	HA-1	89	90
890-7529-6	HA-2	284 S1+	87
890-7529-7	HA-2	147 S1+	93
890-7529-8	HA-2	91	90
890-7529-9	HA-2	95	95
890-7529-10	HA-2	93	95
890-7529-11	HA-3	261 S1+	94
890-7529-12	HA-3	89	93
890-7529-13	HA-3	96	94
890-7529-14	HA-3	93	91
890-7529-15	HA-3	96	88
890-7529-16	HA-4	91	102
890-7529-17	HA-4	95	92
890-7529-18	HA-4	94	73
890-7529-19	HA-4	96	91
890-7529-20	HA-4	89	92
890-7529-21	HA-5	86	100
890-7529-21 MS	HA-5	115	95
890-7529-21 MSD	HA-5	100	103
890-7529-22	HA-5	120	104
890-7529-23	HA-5	118	107
890-7529-24	HA-5	116	104
890-7529-25	HA-5	125	103
890-7529-26	HA-6	110	102
890-7529-27	HA-6	114	106
890-7529-28	HA-6	108	102
890-7529-29	HA-6	125	102
890-7529-30	HA-6	122	103
890-7529-31	HA-7	123	99
890-7529-32	HA-7	128	101
890-7529-33	HA-7	121	98
890-7529-34	HA-7	119	98
890-7529-35	HA-7	126	96
LCS 880-99534/1-A	Lab Control Sample	93	101
LCS 880-99537/1-A	Lab Control Sample	105	94
LCS 880-99630/1-A	Lab Control Sample	113	102
LCS 880-99689/1-A	Lab Control Sample	116	98
LCSD 880-99534/2-A	Lab Control Sample Dup	103	92
LCSD 880-99537/2-A	Lab Control Sample Dup	103	106
LCSD 880-99630/2-A	Lab Control Sample Dup	115	102
LCSD 880-99689/2-A	Lab Control Sample Dup	114	97
MB 880-99534/5-A	Method Blank	85	90
MB 880-99537/5-A	Method Blank	197 S1+	123

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-99630/5-A	Method Blank	109	102
MB 880-99631/5-A	Method Blank	118	97
MB 880-99689/5-A	Method Blank	119	98
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)
890-7529-1	HA-1	87	90
890-7529-1 MS	HA-1	90	92
890-7529-1 MSD	HA-1	89	90
890-7529-2	HA-1	77	78
890-7529-3	HA-1	75	72
890-7529-4	HA-1	76	74
890-7529-5	HA-1	75	72
890-7529-6	HA-2	171 S1+	466 S1+
890-7529-7	HA-2	75	77
890-7529-8	HA-2	70	66 S1-
890-7529-9	HA-2	73	70
890-7529-10	HA-2	69 S1-	66 S1-
890-7529-11	HA-3	85	81
890-7529-12	HA-3	72	67 S1-
890-7529-13	HA-3	70	68 S1-
890-7529-14	HA-3	74	69 S1-
890-7529-15	HA-3	71	68 S1-
890-7529-16	HA-4	35 S1-	92
890-7529-17	HA-4	68 S1-	67 S1-
890-7529-18	HA-4	74	70
890-7529-19	HA-4	63 S1-	62 S1-
890-7529-19 MS	HA-4	79	73
890-7529-19 MSD	HA-4	78	72
890-7529-20	HA-4	73	72
890-7529-21	HA-5	66 S1-	72
890-7529-22	HA-5	68 S1-	67 S1-
890-7529-23	HA-5	67 S1-	65 S1-
890-7529-24	HA-5	62 S1-	60 S1-
890-7529-25	HA-5	60 S1-	59 S1-
890-7529-26	HA-6	111	157 S1+
890-7529-27	HA-6	76	73
890-7529-28	HA-6	58 S1-	56 S1-
890-7529-29	HA-6	62 S1-	59 S1-
890-7529-30	HA-6	63 S1-	60 S1-
890-7529-31	HA-7	66 S1-	75
890-7529-32	HA-7	59 S1-	57 S1-
890-7529-33	HA-7	65 S1-	62 S1-

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
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)
890-7529-34	HA-7	59 S1-	57 S1-
890-7529-35	HA-7	60 S1-	57 S1-
LCS 880-99721/2-A	Lab Control Sample	119	110
LCS 880-99723/2-A	Lab Control Sample	125	114
LCS 880-99904/2-A	Lab Control Sample	128	118
LCSD 880-99721/3-A	Lab Control Sample Dup	108	100
LCSD 880-99723/3-A	Lab Control Sample Dup	131 S1+	116
LCSD 880-99904/3-A	Lab Control Sample Dup	116	108
MB 880-99721/1-A	Method Blank	114	113
MB 880-99723/1-A	Method Blank	111	115
MB 880-99904/1-A	Method Blank	136 S1+	137 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99534/5-A

Matrix: Solid

Analysis Batch: 99490

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99534

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 12:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 12:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 12:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/25 10:53	01/06/25 12:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:53	01/06/25 12:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/25 10:53	01/06/25 12:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	85		70 - 130	01/06/25 10:53	01/06/25 12:21	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/06/25 10:53	01/06/25 12:21	1

Lab Sample ID: LCS 880-99534/1-A

Matrix: Solid

Analysis Batch: 99490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99534

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Benzene	0.100	0.08547		mg/Kg		85	70 - 130
Toluene	0.100	0.08775		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08612		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1656		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08146		mg/Kg		81	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-99534/2-A

Matrix: Solid

Analysis Batch: 99490

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99534

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Benzene	0.100	0.09137		mg/Kg		91	70 - 130	7	35
Toluene	0.100	0.09486		mg/Kg		95	70 - 130	8	35
Ethylbenzene	0.100	0.1179		mg/Kg		118	70 - 130	31	35
m-Xylene & p-Xylene	0.200	0.2216		mg/Kg		111	70 - 130	29	35
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130	29	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-7529-4 MS

Matrix: Solid

Analysis Batch: 99490

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 99534

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				Limits
Benzene	<0.00199	U	0.0996	0.07662		mg/Kg		77	70 - 130
Toluene	<0.00199	U	0.0996	0.08227		mg/Kg		83	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-7529-4 MS

Matrix: Solid

Analysis Batch: 99490

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 99534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.08276		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1654		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07992		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-7529-4 MSD

Matrix: Solid

Analysis Batch: 99490

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 99534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09346		mg/Kg		93	70 - 130	20	35
Toluene	<0.00199	U	0.101	0.09452		mg/Kg		94	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.101	0.09258		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1808		mg/Kg		90	70 - 130	9	35
o-Xylene	<0.00199	U	0.101	0.08791		mg/Kg		87	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-99537/5-A

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 13:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/25 11:07	01/06/25 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 11:07	01/06/25 13:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/25 11:07	01/06/25 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130	01/06/25 11:07	01/06/25 13:35	1
1,4-Difluorobenzene (Surr)	123		70 - 130	01/06/25 11:07	01/06/25 13:35	1

Lab Sample ID: LCS 880-99537/1-A

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09672		mg/Kg		97	70 - 130
Toluene	0.100	0.09647		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.1689		mg/Kg		84	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-99537/1-A

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09492		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-99537/2-A

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99537

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09744		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.09998		mg/Kg		100	70 - 130	4	35
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130	19	35
o-Xylene	0.100	0.09681		mg/Kg		97	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-7529-21 MS

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 99537

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.09958		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.0992	0.09083		mg/Kg		92	70 - 130
Ethylbenzene	<0.00199	U	0.0992	0.09124		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1923		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0992	0.09291		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-7529-21 MSD

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 99537

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1020		mg/Kg		101	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.09234		mg/Kg		92	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.09042		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1796		mg/Kg		89	70 - 130	7	35
o-Xylene	<0.00199	U	0.101	0.08462		mg/Kg		84	70 - 130	9	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-7529-21 MSD

Matrix: Solid

Analysis Batch: 99381

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 99537

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-99630/5-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99630

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1	
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/07/25 08:40	01/07/25 11:14	1	
1,4-Difluorobenzene (Surr)	102		70 - 130				01/07/25 08:40	01/07/25 11:14	1	

Lab Sample ID: LCS 880-99630/1-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike	LCS	LCS						%Rec	
	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1038		mg/Kg		104	70 - 130			
Toluene	0.100	0.1022		mg/Kg		102	70 - 130			
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130			
m-Xylene & p-Xylene	0.200	0.2079		mg/Kg		104	70 - 130			
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	113		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: LCSD 880-99630/2-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike	LCSD	LCSD						%Rec	RPD	Limit
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD			
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	6		35	
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	6		35	
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5		35	
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130	5		35	
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130	5		35	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-99630/2-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99630

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

Lab Sample ID: MB 880-99631/5-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99631

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:44	01/07/25 11:09	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				01/07/25 08:44	01/07/25 11:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/07/25 08:44	01/07/25 11:09	1

Lab Sample ID: MB 880-99689/5-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99689

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 13:39	01/07/25 22:05	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/07/25 13:39	01/07/25 22:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/07/25 13:39	01/07/25 22:05	1

Lab Sample ID: LCS 880-99689/1-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99689

	Spike	LCS	LCS						
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1197		mg/Kg		120	70 - 130		
Toluene	0.100	0.1131		mg/Kg		113	70 - 130		
Ethylbenzene	0.100	0.1149		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene	0.200	0.2312		mg/Kg		116	70 - 130		
o-Xylene	0.100	0.1168		mg/Kg		117	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-99689/1-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99689

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-99689/2-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99689

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	8	35		
Toluene	0.100	0.1055		mg/Kg		106	70 - 130	7	35		
Ethylbenzene	0.100	0.1071		mg/Kg		107	70 - 130	7	35		
m-Xylene & p-Xylene	0.200	0.2156		mg/Kg		108	70 - 130	7	35		
o-Xylene	0.100	0.1092		mg/Kg		109	70 - 130	7	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-99721/1-A

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99721

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 02:28	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 02:28	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:42	01/08/25 02:28	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	114		70 - 130	01/07/25 16:42	01/08/25 02:28	1				
o-Terphenyl	113		70 - 130	01/07/25 16:42	01/08/25 02:28	1				

Lab Sample ID: LCS 880-99721/2-A

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99721

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	918.7		mg/Kg		92	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1003		mg/Kg		100	70 - 130			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	110		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-99721/3-A

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99721

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	854.8		mg/Kg		85	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	939.5		mg/Kg		94	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 890-7529-1 MS

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 99721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	226		998	1009		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	1010	F1	998	1722		mg/Kg		71	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: 890-7529-1 MSD

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 99721

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	226		998	1000		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1010	F1	998	1699	F1	mg/Kg		69	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: MB 880-99723/1-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99723

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		01/07/25 16:44	01/08/25 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:44	01/08/25 02:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:44	01/08/25 02:28	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99723/1-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99723

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	01/07/25 16:44	01/08/25 02:28	1
o-Terphenyl	115		70 - 130	01/07/25 16:44	01/08/25 02:28	1

Lab Sample ID: LCS 880-99723/2-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	937.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-99723/3-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	972.5		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1111		mg/Kg		111	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-7529-19 MS

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: HA-4

Prep Type: Total/NA

Prep Batch: 99723

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 F1	994	651.2	F1	mg/Kg		66	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	711.9		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	73		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-7529-19 MSD

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: HA-4

Prep Type: Total/NA

Prep Batch: 99723

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 F1	994	609.1	F1	mg/Kg		61	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	683.1	F1	mg/Kg		67	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	78		70 - 130								
o-Terphenyl	72		70 - 130								

Lab Sample ID: MB 880-99904/1-A

Matrix: Solid

Analysis Batch: 99929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99904

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		01/09/25 10:11	01/09/25 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/25 10:11	01/09/25 04:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				01/09/25 10:11	01/09/25 04:50	1
o-Terphenyl	137	S1+	70 - 130				01/09/25 10:11	01/09/25 04:50	1

Lab Sample ID: LCS 880-99904/2-A

Matrix: Solid

Analysis Batch: 99929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1024		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1125		mg/Kg		113	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: LCSD 880-99904/3-A

Matrix: Solid

Analysis Batch: 99929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99904

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	910.4		mg/Kg		91	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	985.4		mg/Kg		99	70 - 130	13	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-99904/3-A

Matrix: Solid

Analysis Batch: 99929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99904

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99573/1-A

Matrix: Solid

Analysis Batch: 99597

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			01/07/25 22:10		1

Lab Sample ID: LCS 880-99573/2-A

Matrix: Solid

Analysis Batch: 99597

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	254.5		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-99573/3-A

Matrix: Solid

Analysis Batch: 99597

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	253.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-7529-1 MS

Matrix: Solid

Analysis Batch: 99597

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	221		248	451.6		mg/Kg		93	90 - 110	

Lab Sample ID: 890-7529-1 MSD

Matrix: Solid

Analysis Batch: 99597

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	221		248	486.1		mg/Kg		107	90 - 110	7	20

Lab Sample ID: 890-7529-11 MS

Matrix: Solid

Analysis Batch: 99597

Client Sample ID: HA-3

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2480	F1	1260	3880	F1	mg/Kg		111	90 - 110	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7529-11 MSD

Matrix: Solid

Analysis Batch: 99597

Client Sample ID: HA-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2480	F1	1260	4020	F1	mg/Kg		122	90 - 110	4	20

Lab Sample ID: MB 880-99574/1-A

Matrix: Solid

Analysis Batch: 99671

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			01/08/25 17:20	1

Lab Sample ID: LCS 880-99574/2-A

Matrix: Solid

Analysis Batch: 99671

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.7		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-99574/3-A

Matrix: Solid

Analysis Batch: 99671

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	264.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-7529-30 MS

Matrix: Solid

Analysis Batch: 99671

Client Sample ID: HA-6

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	127	F1	249	418.0	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-7529-30 MSD

Matrix: Solid

Analysis Batch: 99671

Client Sample ID: HA-6

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	127	F1	249	345.1	F1	mg/Kg		88	90 - 110	19	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-21	HA-5	Total/NA	Solid	8021B	99537
890-7529-22	HA-5	Total/NA	Solid	8021B	99537
890-7529-23	HA-5	Total/NA	Solid	8021B	99537
890-7529-24	HA-5	Total/NA	Solid	8021B	99537
890-7529-25	HA-5	Total/NA	Solid	8021B	99537
890-7529-26	HA-6	Total/NA	Solid	8021B	99537
890-7529-27	HA-6	Total/NA	Solid	8021B	99537
890-7529-28	HA-6	Total/NA	Solid	8021B	99537
890-7529-29	HA-6	Total/NA	Solid	8021B	99537
MB 880-99537/5-A	Method Blank	Total/NA	Solid	8021B	99537
LCS 880-99537/1-A	Lab Control Sample	Total/NA	Solid	8021B	99537
LCSD 880-99537/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99537
890-7529-21 MS	HA-5	Total/NA	Solid	8021B	99537
890-7529-21 MSD	HA-5	Total/NA	Solid	8021B	99537

Analysis Batch: 99490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Total/NA	Solid	8021B	99534
890-7529-2	HA-1	Total/NA	Solid	8021B	99534
890-7529-3	HA-1	Total/NA	Solid	8021B	99534
890-7529-4	HA-1	Total/NA	Solid	8021B	99534
890-7529-5	HA-1	Total/NA	Solid	8021B	99534
890-7529-6	HA-2	Total/NA	Solid	8021B	99534
890-7529-7	HA-2	Total/NA	Solid	8021B	99534
890-7529-8	HA-2	Total/NA	Solid	8021B	99534
890-7529-9	HA-2	Total/NA	Solid	8021B	99534
890-7529-10	HA-2	Total/NA	Solid	8021B	99534
890-7529-11	HA-3	Total/NA	Solid	8021B	99534
890-7529-12	HA-3	Total/NA	Solid	8021B	99534
890-7529-13	HA-3	Total/NA	Solid	8021B	99534
890-7529-14	HA-3	Total/NA	Solid	8021B	99534
890-7529-15	HA-3	Total/NA	Solid	8021B	99534
890-7529-16	HA-4	Total/NA	Solid	8021B	99534
890-7529-17	HA-4	Total/NA	Solid	8021B	99534
890-7529-18	HA-4	Total/NA	Solid	8021B	99534
890-7529-19	HA-4	Total/NA	Solid	8021B	99534
890-7529-20	HA-4	Total/NA	Solid	8021B	99534
MB 880-99534/5-A	Method Blank	Total/NA	Solid	8021B	99534
LCS 880-99534/1-A	Lab Control Sample	Total/NA	Solid	8021B	99534
LCSD 880-99534/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99534
890-7529-4 MS	HA-1	Total/NA	Solid	8021B	99534
890-7529-4 MSD	HA-1	Total/NA	Solid	8021B	99534

Prep Batch: 99534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Total/NA	Solid	5035	
890-7529-2	HA-1	Total/NA	Solid	5035	
890-7529-3	HA-1	Total/NA	Solid	5035	
890-7529-4	HA-1	Total/NA	Solid	5035	
890-7529-5	HA-1	Total/NA	Solid	5035	
890-7529-6	HA-2	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 99534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-7	HA-2	Total/NA	Solid	5035	
890-7529-8	HA-2	Total/NA	Solid	5035	
890-7529-9	HA-2	Total/NA	Solid	5035	
890-7529-10	HA-2	Total/NA	Solid	5035	
890-7529-11	HA-3	Total/NA	Solid	5035	
890-7529-12	HA-3	Total/NA	Solid	5035	
890-7529-13	HA-3	Total/NA	Solid	5035	
890-7529-14	HA-3	Total/NA	Solid	5035	
890-7529-15	HA-3	Total/NA	Solid	5035	
890-7529-16	HA-4	Total/NA	Solid	5035	
890-7529-17	HA-4	Total/NA	Solid	5035	
890-7529-18	HA-4	Total/NA	Solid	5035	
890-7529-19	HA-4	Total/NA	Solid	5035	
890-7529-20	HA-4	Total/NA	Solid	5035	
MB 880-99534/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99534/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99534/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7529-4 MS	HA-1	Total/NA	Solid	5035	
890-7529-4 MSD	HA-1	Total/NA	Solid	5035	

Prep Batch: 99537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-21	HA-5	Total/NA	Solid	5035	
890-7529-22	HA-5	Total/NA	Solid	5035	
890-7529-23	HA-5	Total/NA	Solid	5035	
890-7529-24	HA-5	Total/NA	Solid	5035	
890-7529-25	HA-5	Total/NA	Solid	5035	
890-7529-26	HA-6	Total/NA	Solid	5035	
890-7529-27	HA-6	Total/NA	Solid	5035	
890-7529-28	HA-6	Total/NA	Solid	5035	
890-7529-29	HA-6	Total/NA	Solid	5035	
MB 880-99537/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99537/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99537/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7529-21 MS	HA-5	Total/NA	Solid	5035	
890-7529-21 MSD	HA-5	Total/NA	Solid	5035	

Analysis Batch: 99626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-6	HA-2	Total/NA	Solid	8021B	99630
MB 880-99630/5-A	Method Blank	Total/NA	Solid	8021B	99630
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	8021B	99630
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99630

Analysis Batch: 99628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-30	HA-6	Total/NA	Solid	8021B	99689
890-7529-31	HA-7	Total/NA	Solid	8021B	99689
890-7529-32	HA-7	Total/NA	Solid	8021B	99689
890-7529-33	HA-7	Total/NA	Solid	8021B	99689
890-7529-34	HA-7	Total/NA	Solid	8021B	99689

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 99628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-35	HA-7	Total/NA	Solid	8021B	99689
MB 880-99631/5-A	Method Blank	Total/NA	Solid	8021B	99631
MB 880-99689/5-A	Method Blank	Total/NA	Solid	8021B	99689
LCS 880-99689/1-A	Lab Control Sample	Total/NA	Solid	8021B	99689
LCSD 880-99689/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99689

Prep Batch: 99630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-6	HA-2	Total/NA	Solid	5035	
MB 880-99630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 99631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99631/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-30	HA-6	Total/NA	Solid	5035	
890-7529-31	HA-7	Total/NA	Solid	5035	
890-7529-32	HA-7	Total/NA	Solid	5035	
890-7529-33	HA-7	Total/NA	Solid	5035	
890-7529-34	HA-7	Total/NA	Solid	5035	
890-7529-35	HA-7	Total/NA	Solid	5035	
MB 880-99689/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99689/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99689/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Total/NA	Solid	Total BTEX	
890-7529-2	HA-1	Total/NA	Solid	Total BTEX	
890-7529-3	HA-1	Total/NA	Solid	Total BTEX	
890-7529-4	HA-1	Total/NA	Solid	Total BTEX	
890-7529-5	HA-1	Total/NA	Solid	Total BTEX	
890-7529-6	HA-2	Total/NA	Solid	Total BTEX	
890-7529-7	HA-2	Total/NA	Solid	Total BTEX	
890-7529-8	HA-2	Total/NA	Solid	Total BTEX	
890-7529-9	HA-2	Total/NA	Solid	Total BTEX	
890-7529-10	HA-2	Total/NA	Solid	Total BTEX	
890-7529-11	HA-3	Total/NA	Solid	Total BTEX	
890-7529-12	HA-3	Total/NA	Solid	Total BTEX	
890-7529-13	HA-3	Total/NA	Solid	Total BTEX	
890-7529-14	HA-3	Total/NA	Solid	Total BTEX	
890-7529-15	HA-3	Total/NA	Solid	Total BTEX	
890-7529-16	HA-4	Total/NA	Solid	Total BTEX	
890-7529-17	HA-4	Total/NA	Solid	Total BTEX	
890-7529-18	HA-4	Total/NA	Solid	Total BTEX	
890-7529-19	HA-4	Total/NA	Solid	Total BTEX	
890-7529-20	HA-4	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 99690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-21	HA-5	Total/NA	Solid	Total BTEX	
890-7529-22	HA-5	Total/NA	Solid	Total BTEX	
890-7529-23	HA-5	Total/NA	Solid	Total BTEX	
890-7529-24	HA-5	Total/NA	Solid	Total BTEX	
890-7529-25	HA-5	Total/NA	Solid	Total BTEX	
890-7529-26	HA-6	Total/NA	Solid	Total BTEX	
890-7529-27	HA-6	Total/NA	Solid	Total BTEX	
890-7529-28	HA-6	Total/NA	Solid	Total BTEX	
890-7529-29	HA-6	Total/NA	Solid	Total BTEX	
890-7529-30	HA-6	Total/NA	Solid	Total BTEX	
890-7529-31	HA-7	Total/NA	Solid	Total BTEX	
890-7529-32	HA-7	Total/NA	Solid	Total BTEX	
890-7529-33	HA-7	Total/NA	Solid	Total BTEX	
890-7529-34	HA-7	Total/NA	Solid	Total BTEX	
890-7529-35	HA-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Total/NA	Solid	8015NM Prep	
890-7529-2	HA-1	Total/NA	Solid	8015NM Prep	
890-7529-3	HA-1	Total/NA	Solid	8015NM Prep	
890-7529-4	HA-1	Total/NA	Solid	8015NM Prep	
890-7529-5	HA-1	Total/NA	Solid	8015NM Prep	
890-7529-7	HA-2	Total/NA	Solid	8015NM Prep	
890-7529-8	HA-2	Total/NA	Solid	8015NM Prep	
890-7529-9	HA-2	Total/NA	Solid	8015NM Prep	
890-7529-10	HA-2	Total/NA	Solid	8015NM Prep	
890-7529-11	HA-3	Total/NA	Solid	8015NM Prep	
890-7529-12	HA-3	Total/NA	Solid	8015NM Prep	
890-7529-13	HA-3	Total/NA	Solid	8015NM Prep	
890-7529-14	HA-3	Total/NA	Solid	8015NM Prep	
890-7529-15	HA-3	Total/NA	Solid	8015NM Prep	
890-7529-16	HA-4	Total/NA	Solid	8015NM Prep	
890-7529-17	HA-4	Total/NA	Solid	8015NM Prep	
890-7529-18	HA-4	Total/NA	Solid	8015NM Prep	
MB 880-99721/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99721/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7529-1 MS	HA-1	Total/NA	Solid	8015NM Prep	
890-7529-1 MSD	HA-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 99723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-19	HA-4	Total/NA	Solid	8015NM Prep	
890-7529-20	HA-4	Total/NA	Solid	8015NM Prep	
890-7529-21	HA-5	Total/NA	Solid	8015NM Prep	
890-7529-22	HA-5	Total/NA	Solid	8015NM Prep	
890-7529-23	HA-5	Total/NA	Solid	8015NM Prep	
890-7529-24	HA-5	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 99723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-25	HA-5	Total/NA	Solid	8015NM Prep	
890-7529-26	HA-6	Total/NA	Solid	8015NM Prep	
890-7529-27	HA-6	Total/NA	Solid	8015NM Prep	
890-7529-28	HA-6	Total/NA	Solid	8015NM Prep	
890-7529-29	HA-6	Total/NA	Solid	8015NM Prep	
890-7529-30	HA-6	Total/NA	Solid	8015NM Prep	
890-7529-31	HA-7	Total/NA	Solid	8015NM Prep	
890-7529-32	HA-7	Total/NA	Solid	8015NM Prep	
890-7529-33	HA-7	Total/NA	Solid	8015NM Prep	
890-7529-34	HA-7	Total/NA	Solid	8015NM Prep	
890-7529-35	HA-7	Total/NA	Solid	8015NM Prep	
MB 880-99723/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99723/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7529-19 MS	HA-4	Total/NA	Solid	8015NM Prep	
890-7529-19 MSD	HA-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Total/NA	Solid	8015B NM	99721
890-7529-2	HA-1	Total/NA	Solid	8015B NM	99721
890-7529-3	HA-1	Total/NA	Solid	8015B NM	99721
890-7529-4	HA-1	Total/NA	Solid	8015B NM	99721
890-7529-5	HA-1	Total/NA	Solid	8015B NM	99721
890-7529-7	HA-2	Total/NA	Solid	8015B NM	99721
890-7529-8	HA-2	Total/NA	Solid	8015B NM	99721
890-7529-9	HA-2	Total/NA	Solid	8015B NM	99721
890-7529-10	HA-2	Total/NA	Solid	8015B NM	99721
890-7529-11	HA-3	Total/NA	Solid	8015B NM	99721
890-7529-12	HA-3	Total/NA	Solid	8015B NM	99721
890-7529-13	HA-3	Total/NA	Solid	8015B NM	99721
890-7529-14	HA-3	Total/NA	Solid	8015B NM	99721
890-7529-15	HA-3	Total/NA	Solid	8015B NM	99721
890-7529-16	HA-4	Total/NA	Solid	8015B NM	99721
890-7529-17	HA-4	Total/NA	Solid	8015B NM	99721
890-7529-18	HA-4	Total/NA	Solid	8015B NM	99721
MB 880-99721/1-A	Method Blank	Total/NA	Solid	8015B NM	99721
LCS 880-99721/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99721
LCSD 880-99721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99721
890-7529-1 MS	HA-1	Total/NA	Solid	8015B NM	99721
890-7529-1 MSD	HA-1	Total/NA	Solid	8015B NM	99721

Analysis Batch: 99796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-19	HA-4	Total/NA	Solid	8015B NM	99723
890-7529-20	HA-4	Total/NA	Solid	8015B NM	99723
890-7529-21	HA-5	Total/NA	Solid	8015B NM	99723
890-7529-22	HA-5	Total/NA	Solid	8015B NM	99723
890-7529-23	HA-5	Total/NA	Solid	8015B NM	99723
890-7529-24	HA-5	Total/NA	Solid	8015B NM	99723
890-7529-25	HA-5	Total/NA	Solid	8015B NM	99723

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-26	HA-6	Total/NA	Solid	8015B NM	99723
890-7529-27	HA-6	Total/NA	Solid	8015B NM	99723
890-7529-28	HA-6	Total/NA	Solid	8015B NM	99723
890-7529-29	HA-6	Total/NA	Solid	8015B NM	99723
890-7529-30	HA-6	Total/NA	Solid	8015B NM	99723
890-7529-31	HA-7	Total/NA	Solid	8015B NM	99723
890-7529-32	HA-7	Total/NA	Solid	8015B NM	99723
890-7529-33	HA-7	Total/NA	Solid	8015B NM	99723
890-7529-34	HA-7	Total/NA	Solid	8015B NM	99723
890-7529-35	HA-7	Total/NA	Solid	8015B NM	99723
MB 880-99723/1-A	Method Blank	Total/NA	Solid	8015B NM	99723
LCS 880-99723/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99723
LCSD 880-99723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99723
890-7529-19 MS	HA-4	Total/NA	Solid	8015B NM	99723
890-7529-19 MSD	HA-4	Total/NA	Solid	8015B NM	99723

Analysis Batch: 99818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Total/NA	Solid	8015 NM	
890-7529-2	HA-1	Total/NA	Solid	8015 NM	
890-7529-3	HA-1	Total/NA	Solid	8015 NM	
890-7529-4	HA-1	Total/NA	Solid	8015 NM	
890-7529-5	HA-1	Total/NA	Solid	8015 NM	
890-7529-6	HA-2	Total/NA	Solid	8015 NM	
890-7529-7	HA-2	Total/NA	Solid	8015 NM	
890-7529-8	HA-2	Total/NA	Solid	8015 NM	
890-7529-9	HA-2	Total/NA	Solid	8015 NM	
890-7529-10	HA-2	Total/NA	Solid	8015 NM	
890-7529-11	HA-3	Total/NA	Solid	8015 NM	
890-7529-12	HA-3	Total/NA	Solid	8015 NM	
890-7529-13	HA-3	Total/NA	Solid	8015 NM	
890-7529-14	HA-3	Total/NA	Solid	8015 NM	
890-7529-15	HA-3	Total/NA	Solid	8015 NM	
890-7529-16	HA-4	Total/NA	Solid	8015 NM	
890-7529-17	HA-4	Total/NA	Solid	8015 NM	
890-7529-18	HA-4	Total/NA	Solid	8015 NM	
890-7529-19	HA-4	Total/NA	Solid	8015 NM	
890-7529-20	HA-4	Total/NA	Solid	8015 NM	
890-7529-21	HA-5	Total/NA	Solid	8015 NM	
890-7529-22	HA-5	Total/NA	Solid	8015 NM	
890-7529-23	HA-5	Total/NA	Solid	8015 NM	
890-7529-24	HA-5	Total/NA	Solid	8015 NM	
890-7529-25	HA-5	Total/NA	Solid	8015 NM	
890-7529-26	HA-6	Total/NA	Solid	8015 NM	
890-7529-27	HA-6	Total/NA	Solid	8015 NM	
890-7529-28	HA-6	Total/NA	Solid	8015 NM	
890-7529-29	HA-6	Total/NA	Solid	8015 NM	
890-7529-30	HA-6	Total/NA	Solid	8015 NM	
890-7529-31	HA-7	Total/NA	Solid	8015 NM	
890-7529-32	HA-7	Total/NA	Solid	8015 NM	
890-7529-33	HA-7	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-34	HA-7	Total/NA	Solid	8015 NM	
890-7529-35	HA-7	Total/NA	Solid	8015 NM	

Prep Batch: 99904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-6	HA-2	Total/NA	Solid	8015NM Prep	
MB 880-99904/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99904/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-6	HA-2	Total/NA	Solid	8015B NM	99904
MB 880-99904/1-A	Method Blank	Total/NA	Solid	8015B NM	99904
LCS 880-99904/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99904
LCSD 880-99904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99904

HPLC/IC

Leach Batch: 99573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Soluble	Solid	DI Leach	
890-7529-2	HA-1	Soluble	Solid	DI Leach	
890-7529-3	HA-1	Soluble	Solid	DI Leach	
890-7529-4	HA-1	Soluble	Solid	DI Leach	
890-7529-5	HA-1	Soluble	Solid	DI Leach	
890-7529-6	HA-2	Soluble	Solid	DI Leach	
890-7529-7	HA-2	Soluble	Solid	DI Leach	
890-7529-8	HA-2	Soluble	Solid	DI Leach	
890-7529-9	HA-2	Soluble	Solid	DI Leach	
890-7529-10	HA-2	Soluble	Solid	DI Leach	
890-7529-11	HA-3	Soluble	Solid	DI Leach	
890-7529-12	HA-3	Soluble	Solid	DI Leach	
890-7529-13	HA-3	Soluble	Solid	DI Leach	
890-7529-14	HA-3	Soluble	Solid	DI Leach	
890-7529-15	HA-3	Soluble	Solid	DI Leach	
890-7529-16	HA-4	Soluble	Solid	DI Leach	
890-7529-17	HA-4	Soluble	Solid	DI Leach	
890-7529-18	HA-4	Soluble	Solid	DI Leach	
890-7529-19	HA-4	Soluble	Solid	DI Leach	
890-7529-20	HA-4	Soluble	Solid	DI Leach	
MB 880-99573/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99573/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99573/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7529-1 MS	HA-1	Soluble	Solid	DI Leach	
890-7529-1 MSD	HA-1	Soluble	Solid	DI Leach	
890-7529-11 MS	HA-3	Soluble	Solid	DI Leach	
890-7529-11 MSD	HA-3	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 99574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-21	HA-5	Soluble	Solid	DI Leach	
890-7529-22	HA-5	Soluble	Solid	DI Leach	
890-7529-23	HA-5	Soluble	Solid	DI Leach	
890-7529-24	HA-5	Soluble	Solid	DI Leach	
890-7529-25	HA-5	Soluble	Solid	DI Leach	
890-7529-26	HA-6	Soluble	Solid	DI Leach	
890-7529-27	HA-6	Soluble	Solid	DI Leach	
890-7529-28	HA-6	Soluble	Solid	DI Leach	
890-7529-29	HA-6	Soluble	Solid	DI Leach	
890-7529-30	HA-6	Soluble	Solid	DI Leach	
890-7529-31	HA-7	Soluble	Solid	DI Leach	
890-7529-32	HA-7	Soluble	Solid	DI Leach	
890-7529-33	HA-7	Soluble	Solid	DI Leach	
890-7529-34	HA-7	Soluble	Solid	DI Leach	
890-7529-35	HA-7	Soluble	Solid	DI Leach	
MB 880-99574/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99574/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99574/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7529-30 MS	HA-6	Soluble	Solid	DI Leach	
890-7529-30 MSD	HA-6	Soluble	Solid	DI Leach	

Analysis Batch: 99597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-1	HA-1	Soluble	Solid	300.0	99573
890-7529-2	HA-1	Soluble	Solid	300.0	99573
890-7529-3	HA-1	Soluble	Solid	300.0	99573
890-7529-4	HA-1	Soluble	Solid	300.0	99573
890-7529-5	HA-1	Soluble	Solid	300.0	99573
890-7529-6	HA-2	Soluble	Solid	300.0	99573
890-7529-7	HA-2	Soluble	Solid	300.0	99573
890-7529-8	HA-2	Soluble	Solid	300.0	99573
890-7529-9	HA-2	Soluble	Solid	300.0	99573
890-7529-10	HA-2	Soluble	Solid	300.0	99573
890-7529-11	HA-3	Soluble	Solid	300.0	99573
890-7529-12	HA-3	Soluble	Solid	300.0	99573
890-7529-13	HA-3	Soluble	Solid	300.0	99573
890-7529-14	HA-3	Soluble	Solid	300.0	99573
890-7529-15	HA-3	Soluble	Solid	300.0	99573
890-7529-16	HA-4	Soluble	Solid	300.0	99573
890-7529-17	HA-4	Soluble	Solid	300.0	99573
890-7529-18	HA-4	Soluble	Solid	300.0	99573
890-7529-19	HA-4	Soluble	Solid	300.0	99573
890-7529-20	HA-4	Soluble	Solid	300.0	99573
MB 880-99573/1-A	Method Blank	Soluble	Solid	300.0	99573
LCS 880-99573/2-A	Lab Control Sample	Soluble	Solid	300.0	99573
LCSD 880-99573/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99573
890-7529-1 MS	HA-1	Soluble	Solid	300.0	99573
890-7529-1 MSD	HA-1	Soluble	Solid	300.0	99573
890-7529-11 MS	HA-3	Soluble	Solid	300.0	99573
890-7529-11 MSD	HA-3	Soluble	Solid	300.0	99573

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 99671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7529-21	HA-5	Soluble	Solid	300.0	99574
890-7529-22	HA-5	Soluble	Solid	300.0	99574
890-7529-23	HA-5	Soluble	Solid	300.0	99574
890-7529-24	HA-5	Soluble	Solid	300.0	99574
890-7529-25	HA-5	Soluble	Solid	300.0	99574
890-7529-26	HA-6	Soluble	Solid	300.0	99574
890-7529-27	HA-6	Soluble	Solid	300.0	99574
890-7529-28	HA-6	Soluble	Solid	300.0	99574
890-7529-29	HA-6	Soluble	Solid	300.0	99574
890-7529-30	HA-6	Soluble	Solid	300.0	99574
890-7529-31	HA-7	Soluble	Solid	300.0	99574
890-7529-32	HA-7	Soluble	Solid	300.0	99574
890-7529-33	HA-7	Soluble	Solid	300.0	99574
890-7529-34	HA-7	Soluble	Solid	300.0	99574
890-7529-35	HA-7	Soluble	Solid	300.0	99574
MB 880-99574/1-A	Method Blank	Soluble	Solid	300.0	99574
LCS 880-99574/2-A	Lab Control Sample	Soluble	Solid	300.0	99574
LCSD 880-99574/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99574
890-7529-30 MS	HA-6	Soluble	Solid	300.0	99574
890-7529-30 MSD	HA-6	Soluble	Solid	300.0	99574

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-1
Date Collected: 01/03/25 08:30
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7529-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	99490	01/06/25 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 10:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 22:33	CH	EET MID

Client Sample ID: HA-1
Date Collected: 01/03/25 08:35
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7529-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	99490	01/06/25 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 12:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 22:57	CH	EET MID

Client Sample ID: HA-1
Date Collected: 01/03/25 08:40
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7529-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	99490	01/06/25 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 15:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 12:25	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 23:05	CH	EET MID

Client Sample ID: HA-1
Date Collected: 01/03/25 08:45
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7529-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 12:43	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7529-4

Date Collected: 01/03/25 08:45

Matrix: Solid

Date Received: 01/03/25 14:37

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			99818	01/08/25 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 12:39	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 23:13	CH	EET MID

Client Sample ID: HA-1

Lab Sample ID: 890-7529-5

Date Collected: 01/03/25 08:50

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 12:55	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 23:20	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7529-6

Date Collected: 01/03/25 09:00

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	99490	01/06/25 15:27	MNR	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	99630	01/07/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	99626	01/07/25 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/07/25 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/09/25 14:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99904	01/09/25 10:11	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	99929	01/09/25 14:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 23:44	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7529-7

Date Collected: 01/03/25 09:05

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	99490	01/06/25 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 13:24	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7529-7

Date Collected: 01/03/25 09:05

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 13:24	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/07/25 23:52	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7529-8

Date Collected: 01/03/25 09:10

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 13:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 13:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 00:00	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7529-9

Date Collected: 01/03/25 09:15

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 14:07	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 00:08	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7529-10

Date Collected: 01/03/25 09:20

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 14:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 14:21	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7529-10

Date Collected: 01/03/25 09:20

Matrix: Solid

Date Received: 01/03/25 14:37

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	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 00:15	CH	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-7529-11

Date Collected: 01/03/25 09:25

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	99490	01/06/25 20:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 20:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 14:37	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99597	01/08/25 00:23	CH	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-7529-12

Date Collected: 01/03/25 09:30

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 14:51	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 00:47	CH	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-7529-13

Date Collected: 01/03/25 09:35

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 17:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 15:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 00:55	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7529-14

Date Collected: 01/03/25 09:40

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 17:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 15:22	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 01:18	CH	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-7529-15

Date Collected: 01/03/25 09:45

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 18:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 15:36	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 01:26	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-7529-16

Date Collected: 01/03/25 09:50

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 18:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 15:51	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 01:34	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-7529-17

Date Collected: 01/03/25 09:55

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 18:53	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7529-17

Date Collected: 01/03/25 09:55

Matrix: Solid

Date Received: 01/03/25 14:37

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			99818	01/08/25 16:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 16:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 01:42	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-7529-18

Date Collected: 01/03/25 10:00

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99721	01/07/25 16:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 16:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 01:50	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-7529-19

Date Collected: 01/03/25 10:05

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 19:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 19:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 10:53	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 01:58	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-7529-20

Date Collected: 01/03/25 10:10

Matrix: Solid

Date Received: 01/03/25 14:37

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	99534	01/06/25 10:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99490	01/06/25 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 19:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 12:09	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7529-20

Date Collected: 01/03/25 10:10

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	99573	01/06/25 13:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99597	01/08/25 02:05	CH	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-7529-21

Date Collected: 01/03/25 10:15

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 14:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 12:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 18:07	CH	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-7529-22

Date Collected: 01/03/25 10:20

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 12:39	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 18:15	CH	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-7529-23

Date Collected: 01/03/25 10:25

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 14:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 12:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 18:23	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7529-24

Date Collected: 01/03/25 10:30

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 13:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 13:10	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 18:31	CH	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-7529-25

Date Collected: 01/03/25 10:35

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 15:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 15:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 13:24	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 18:54	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7529-26

Date Collected: 01/03/25 10:40

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 13:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 19:02	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7529-27

Date Collected: 01/03/25 10:45

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 16:06	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7529-27

Date Collected: 01/03/25 10:45

Matrix: Solid

Date Received: 01/03/25 14:37

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			99818	01/08/25 14:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 14:07	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 19:10	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7529-28

Date Collected: 01/03/25 10:50

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 14:21	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 19:18	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7529-29

Date Collected: 01/03/25 10:55

Matrix: Solid

Date Received: 01/03/25 14:37

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	99537	01/06/25 11:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99381	01/06/25 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/06/25 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 14:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 19:26	CH	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-7529-30

Date Collected: 01/03/25 11:00

Matrix: Solid

Date Received: 01/03/25 14:37

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	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 00:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/08/25 00:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 14:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 14:51	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7529-30

Date Collected: 01/03/25 11:00

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 19:34	CH	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7529-31

Date Collected: 01/03/25 11:05

Matrix: Solid

Date Received: 01/03/25 14:37

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	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/08/25 00:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 15:06	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 19:57	CH	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7529-32

Date Collected: 01/03/25 11:10

Matrix: Solid

Date Received: 01/03/25 14:37

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	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/08/25 01:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 15:22	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 20:05	CH	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7529-33

Date Collected: 01/03/25 11:15

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/08/25 01:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 15:36	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 20:29	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Client Sample ID: HA-7
Date Collected: 01/03/25 11:20
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7529-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/08/25 03:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 15:51	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 20:37	CH	EET MID

Client Sample ID: HA-7
Date Collected: 01/03/25 11:25
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7529-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99690	01/08/25 03:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			99818	01/08/25 16:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 16:06	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 20:44	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: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
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

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

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7529-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7529-1	HA-1	Solid	01/03/25 08:30	01/03/25 14:37	0.5
890-7529-2	HA-1	Solid	01/03/25 08:35	01/03/25 14:37	1
890-7529-3	HA-1	Solid	01/03/25 08:40	01/03/25 14:37	2
890-7529-4	HA-1	Solid	01/03/25 08:45	01/03/25 14:37	3
890-7529-5	HA-1	Solid	01/03/25 08:50	01/03/25 14:37	4
890-7529-6	HA-2	Solid	01/03/25 09:00	01/03/25 14:37	0.5
890-7529-7	HA-2	Solid	01/03/25 09:05	01/03/25 14:37	1
890-7529-8	HA-2	Solid	01/03/25 09:10	01/03/25 14:37	2
890-7529-9	HA-2	Solid	01/03/25 09:15	01/03/25 14:37	3
890-7529-10	HA-2	Solid	01/03/25 09:20	01/03/25 14:37	4
890-7529-11	HA-3	Solid	01/03/25 09:25	01/03/25 14:37	0.5
890-7529-12	HA-3	Solid	01/03/25 09:30	01/03/25 14:37	1
890-7529-13	HA-3	Solid	01/03/25 09:35	01/03/25 14:37	2
890-7529-14	HA-3	Solid	01/03/25 09:40	01/03/25 14:37	3
890-7529-15	HA-3	Solid	01/03/25 09:45	01/03/25 14:37	4
890-7529-16	HA-4	Solid	01/03/25 09:50	01/03/25 14:37	0.5
890-7529-17	HA-4	Solid	01/03/25 09:55	01/03/25 14:37	1
890-7529-18	HA-4	Solid	01/03/25 10:00	01/03/25 14:37	2
890-7529-19	HA-4	Solid	01/03/25 10:05	01/03/25 14:37	3
890-7529-20	HA-4	Solid	01/03/25 10:10	01/03/25 14:37	4
890-7529-21	HA-5	Solid	01/03/25 10:15	01/03/25 14:37	0.5
890-7529-22	HA-5	Solid	01/03/25 10:20	01/03/25 14:37	1
890-7529-23	HA-5	Solid	01/03/25 10:25	01/03/25 14:37	2
890-7529-24	HA-5	Solid	01/03/25 10:30	01/03/25 14:37	3
890-7529-25	HA-5	Solid	01/03/25 10:35	01/03/25 14:37	4
890-7529-26	HA-6	Solid	01/03/25 10:40	01/03/25 14:37	0.5
890-7529-27	HA-6	Solid	01/03/25 10:45	01/03/25 14:37	1
890-7529-28	HA-6	Solid	01/03/25 10:50	01/03/25 14:37	2
890-7529-29	HA-6	Solid	01/03/25 10:55	01/03/25 14:37	3
890-7529-30	HA-6	Solid	01/03/25 11:00	01/03/25 14:37	4
890-7529-31	HA-7	Solid	01/03/25 11:05	01/03/25 14:37	0.5
890-7529-32	HA-7	Solid	01/03/25 11:10	01/03/25 14:37	1
890-7529-33	HA-7	Solid	01/03/25 11:15	01/03/25 14:37	2
890-7529-34	HA-7	Solid	01/03/25 11:20	01/03/25 14:37	3
890-7529-35	HA-7	Solid	01/03/25 11:25	01/03/25 14:37	4



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 4

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

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

Project Name:	Shaqutis 26 St 1 Battery	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	2728	☒ Routine ☐ Rush				None: NO DI Water: H ₂ O
Project Location:	Eddy County, NM	Due Date:	5 day 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
PO #:		Temp Blank:	Yes No	Well Ice:	Yes No	H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Thermometer ID:	T-10007		H ₂ PO ₄ : HP
	Samples Received Intact:	Yes No	Correction Factor:	-0.2		NaHSO ₄ : NABIS
	Cooler Custody Seals:	Yes No	Temperature Reading:	0.2		Na ₂ S ₂ O ₃ : NaSO ₃
	Sample Custody Seals:	Yes No	Corrected Temperature:	0.0		Zn Acetate+NaOH: Zn
Total Containers:						NaOH+Ascorbic Acid: SACP



890-7529 Chain of Custody

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	1.3.24	8:30	0.5	Grab/1	1	X	X	X			Incident Number NAPP2434144241
HA-1	S	1.3.24	8:35	1	Grab/1	1	X	X	X			
HA-1	S	1.3.24	8:40	2	Grab/1	1	X	X	X			
HA-1	S	1.3.24	8:45	3	Grab/1	1	X	X	X			
HA-1	S	1.3.24	8:50	4	Grab/1	1	X	X	X			
HA-2	S	1.3.24	9:00	0.5	Grab/1	1	X	X	X			
HA-2	S	1.3.24	9:05	1	Grab/1	1	X	X	X			
HA-2	S	1.3.24	9:10	2	Grab/1	1	X	X	X			
HA-2	S	1.3.24	9:15	3	Grab/1	1	X	X	X			

Total 200.7/6010 200.8/6020:

BRCRA 13PPM Texas 11 At So As Ba Be B Cd Cr Co Cu Fe Pb Mo Mn Ni K Se Ag Sn Na Al Si Ti Sm U V Zn

Hg 163414454144701444

Notes: Signatures of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, Inc. Affiliates and subcontractors. It requires standard terms and conditions of services. Eurofins Xenco will not be responsible for the cost of samples and will not assume any responsibility for any losses or damages caused by the client's failure to follow the instructions beyond the control of Eurofins Xenco. A minimum charge of \$65.00 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>Gilbert Moreno</i>	<i>Jim Raley</i>	14:57 / 5/2			



Environment Testing
Xenco

Chain of Custody

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 4

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

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDO ☐ ADAPT ☐ Other: _____	

Project Name:	Shaglus 26 St 1 Battery		Turn Around		ANALYSIS REQUEST	Preservative Codes	
Project Number:	2728		☒ Routine	☐ Rush		None: NO	DI Water: H ₂ O
Project Location:	Eddy County, NM		Due Date:	5 day 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
PO #			Temp Blank:	Yes No	Wet Ice:	Yes No	H ₂ SO ₄ : H ₂
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	H ₃ PO ₄ : HP	
Samples Received In tact:	Yes No	Thermometer ID:			NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes No	Correction Factor:			Na ₂ S ₂ O ₅ : NaSO ₃		
Sample Custody Seals:	Yes No	Temperature Reading:			Zn Acetate+NaOH: Zn		
Total Containers:	Yes No	Corrected Temperature:			NaOH+Ascorbic Acid: SAPC		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	Sample Comments
HA-2	S	13.11	9:20	4	Grab/1	1	Incident Number nAPP2434144241
HA-3	S	13.15	9:25	0.5	Grab/1	1	
HA-3	S	13.14	9:30	1	Grab/1	1	
HA-3	S	13.14	9:35	2	Grab/1	1	
HA-3	S	13.14	9:40	3	Grab/1	1	
HA-3	S	13.14	9:45	4	Grab/1	1	
HA-4	S	13.14	9:50	0.5	Grab/1	1	
HA-4	S	13.14	9:55	1	Grab/1	1	
HA-4	S	13.24	10:00	2	Grab/1	1	
Total: 206.7 / 6010 200.8 / 6020:							

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mo Mn Ni Pt Se Si Sn Sb Sr U V Zn
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	14:37	<i>[Signature]</i>	<i>[Signature]</i>	14:37



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) 986-3199

Work Order No.:

www.xenco.com Page 3 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Energy Permian
Address:	1910 Resource Ct	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorono@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:	Shaglus 26 St 1 Battery	Turn Around	☒ Routine ☐ Rush	Pres Code		
Project Number:	2728	Due Date:	5 day TAT			
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm				
Sampler's Name:	Gilbert Moreno					
PO #:						
SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes	No
Samples Received Inlab:	Yes	No	Thermometer ID:			
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Temperature Reading:			
Total Containers:	Yes	No	Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH - NM	Chloride - NM	BTEX - NM	Hold	24 Hr Rush	ANALYSIS REQUEST	Preservative Codes
HA-4	S	1.3.24	10:05	3	Grab/1	X	X	X	X				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP
HA-4	S	1.3.24	10:10	4	Grab/1	X	X	X	X				
HA-5	S	1.3.24	10:15	0.5	Grab/1	X	X	X	X				
HA-5	S	1.3.24	10:20	1	Grab/1	X	X	X	X				
HA-5	S	1.3.24	10:25	2	Grab/1	X	X	X	X				
HA-5	S	1.3.24	10:30	3	Grab/1	X	X	X	X				
HA-5	S	1.3.24	10:35	4	Grab/1	X	X	X	X				
HA-6	S	1.3.24	10:40	0.5	Grab/1	X	X	X	X				
HA-6	S	1.3.24	10:45	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 Cr Ga Ge Hg In K Ni K Se Ag SnO₂ Na₂SO₄ H₂SO₄ H₂O V Zn

Hg 10317/245.17/470/174/1

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, Inc. and its affiliates and subcontractors. It assumes standard terms and conditions of Eurofins Xenco. A minimum charge of \$15.00 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>Gilbert</i>	<i>Clark</i>	10/31/13			



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) 986-3199

Work Order No: _____

www.xenco.com Page 4 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPC Energy Permian
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:	Shaglus 26 SI 1 Battery	Turn Around	Pre-Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2728	☒ Routine ☐ Rush														None: NO	DI Water: H ₂ O	
Project Location:	Eddy County, NM	Due Date:	5 day 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
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank	Yes	No	Thermometer ID:	Yes	No	Well Ice	Yes	No							H ₃ PO ₄ : HP	
Samples Received In tact:		Yes	No	N/A	Correction Factor:	Yes	No										NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes	No	N/A	Temperature Reading:	Yes	No										Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes	No	N/A	Corrected Temperature:	Yes	No										Zn Acetate+NaOH: Zn	
Total Containers:																	NaOH+Ascorbic Acid: SASC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH-NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments											
HA-6	S	1.3.24	10:50	2	Grab/1	1	X	X	X			Incident Number nAPP2434144241											
HA-6	S	1.3.24	10:55	3	Grab/1	1	X	X	X														
HA-6	S	1.3.24	11:00	4	Grab/1	1	X	X	X														
HA-7	S	1.3.24	11:05	0.5	Grab/1	1	X	X	X														
HA-7	S	1.3.24	11:10	1	Grab/1	1	X	X	X														
HA-7	S	1.3.24	11:15	2	Grab/1	1	X	X	X														
HA-7	S	1.3.24	11:20	3	Grab/1	1	X	X	X														
HA-7	S	1.3.24	11:25	4	Grab/1	1	X	X	X														

Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ce Cr Fe Pb Mg Mn Mo Ni K S Se Sn SO Na Sr Hg Pb Zn
Hg: 1634 / 2461 / 7470 / 7474

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, the signature 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 damage or loss of samples or equipment by the client or subcontractors. These terms will be enforced unless previously negotiated. A minimum charge of \$25.00 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>Gilbert Moreno</i>	<i>Jim Raley</i>	14:37 1/2			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7529-1

SDG Number: Eddy County, NM

Login Number: 7529

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: 890-7529-1
SDG Number: Eddy County, NM

Login Number: 7529

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 01/06/25 09:31 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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7529-1

SDG Number: Eddy County, NM

Login Number: 7529

List Number: 3

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 01/07/25 04:16 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 1/8/2025 12:18:51 PM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7537-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



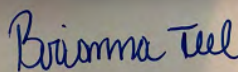
Eurofins Carlsbad

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
1/8/2025 12:18:51 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: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7537-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1

Job ID: 890-7537-1

Eurofins Carlsbad

Job Narrative 890-7537-1

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 1/3/2025 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 8 (890-7537-1), HA - 8 (890-7537-2), HA - 8 (890-7537-3), HA - 8 (890-7537-4) and HA - 8 (890-7537-5).

Sample 001 was listed on the COC, but we did not receive a container for it

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-99661/2-A) and (LCSD 880-99661/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99661 and analytical batch 880-99653 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA - 8 (890-7537-1), HA - 8 (890-7537-2) and HA - 8 (890-7537-3). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA - 8 (890-7537-4) and HA - 8 (890-7537-5). Percent recoveries are based on the amount spiked.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-1

Date Collected: 01/03/25 11:30

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 13:39	01/08/25 03:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 13:39	01/08/25 03:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 13:39	01/08/25 03:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 13:39	01/08/25 03:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 13:39	01/08/25 03:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 13:39	01/08/25 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/07/25 13:39	01/08/25 03:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/07/25 13:39	01/08/25 03:44	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			01/08/25 03:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 20:45	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	<49.8	U **	49.8		mg/Kg		01/07/25 09:48	01/07/25 20:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:48	01/07/25 20:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:48	01/07/25 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	01/07/25 09:48	01/07/25 20:45	1
o-Terphenyl	69	S1-	70 - 130	01/07/25 09:48	01/07/25 20:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.6		10.1		mg/Kg			01/07/25 15:46	1

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-2

Date Collected: 01/03/25 11:35

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 08:58	01/07/25 17:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 17:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 17:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:58	01/07/25 17:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 17:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:58	01/07/25 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/07/25 08:58	01/07/25 17:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-2

Date Collected: 01/03/25 11:35

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	01/07/25 08:58	01/07/25 17:37	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			01/07/25 17:37	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			01/08/25 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/08/25 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/08/25 00:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/08/25 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/07/25 09:48	01/08/25 00:59	1
o-Terphenyl	67	S1-	70 - 130				01/07/25 09:48	01/08/25 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.2		10.0		mg/Kg			01/08/25 11:02	1

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-3

Date Collected: 01/03/25 11:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 17:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/07/25 08:58	01/07/25 17:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/07/25 08:58	01/07/25 17:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 17:57	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			01/08/25 01:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-3

Date Collected: 01/03/25 11:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		01/07/25 09:48	01/08/25 01:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		01/07/25 09:48	01/08/25 01:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:48	01/08/25 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/07/25 09:48	01/08/25 01:13	1
o-Terphenyl	68	S1-	70 - 130				01/07/25 09:48	01/08/25 01:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		10.0		mg/Kg			01/08/25 11:10	1

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-4

Date Collected: 01/03/25 11:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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		01/07/25 08:58	01/07/25 18:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 18:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 18:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 18:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 18:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				01/07/25 08:58	01/07/25 18:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/07/25 08:58	01/07/25 18:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/07/25 18:17	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			01/08/25 00:43	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	<49.9	U	49.9		mg/Kg		01/07/25 16:19	01/08/25 00:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:19	01/08/25 00:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:19	01/08/25 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/07/25 16:19	01/08/25 00:43	1
o-Terphenyl	65	S1-	70 - 130				01/07/25 16:19	01/08/25 00:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-4

Date Collected: 01/03/25 11:45

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		10.0		mg/Kg			01/08/25 11:18	1

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-5

Date Collected: 01/03/25 11:50

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 4

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		01/07/25 08:58	01/07/25 18:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 18:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 18:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:58	01/07/25 18:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 18:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:58	01/07/25 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				01/07/25 08:58	01/07/25 18:38	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/07/25 08:58	01/07/25 18:38	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			01/07/25 18:38	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			01/08/25 00:59	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		01/07/25 16:19	01/08/25 00:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/08/25 00:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/08/25 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				01/07/25 16:19	01/08/25 00:59	1
o-Terphenyl	65	S1-	70 - 130				01/07/25 16:19	01/08/25 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		10.0		mg/Kg			01/08/25 11:25	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
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)
890-7537-1	HA - 8	118	99
890-7537-2	HA - 8	115	104
890-7537-3	HA - 8	127	105
890-7537-4	HA - 8	130	107
890-7537-5	HA - 8	121	106
LCS 880-99645/1-A	Lab Control Sample	110	104
LCS 880-99689/1-A	Lab Control Sample	116	98
LCSD 880-99645/2-A	Lab Control Sample Dup	108	98
LCSD 880-99689/2-A	Lab Control Sample Dup	114	97
MB 880-99631/5-A	Method Blank	118	97
MB 880-99645/5-A	Method Blank	203 S1+	124
MB 880-99689/5-A	Method Blank	119	98
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)
890-7537-1	HA - 8	71	69 S1-
890-7537-2	HA - 8	72	67 S1-
890-7537-3	HA - 8	72	68 S1-
890-7537-4	HA - 8	67 S1-	65 S1-
890-7537-5	HA - 8	66 S1-	65 S1-
LCS 880-99661/2-A	Lab Control Sample	155 S1+	147 S1+
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128
LCSD 880-99661/3-A	Lab Control Sample Dup	164 S1+	155 S1+
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130
MB 880-99661/1-A	Method Blank	112	114
MB 880-99667/1-A	Method Blank	107	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99631/5-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:44	01/07/25 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:44	01/07/25 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/07/25 08:44	01/07/25 11:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/07/25 08:44	01/07/25 11:09	1

Lab Sample ID: MB 880-99645/5-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130	01/07/25 08:58	01/07/25 11:33	1
1,4-Difluorobenzene (Surr)	124		70 - 130	01/07/25 08:58	01/07/25 11:33	1

Lab Sample ID: LCS 880-99645/1-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1130		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2394		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1133		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-99645/2-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1029		mg/Kg		103	70 - 130	5	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-99645/2-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09926		mg/Kg		99	70 - 130	13	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	8	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-99689/5-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 13:39	01/07/25 22:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 13:39	01/07/25 22:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/07/25 13:39	01/07/25 22:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/07/25 13:39	01/07/25 22:05	1

Lab Sample ID: LCS 880-99689/1-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1197		mg/Kg		120	70 - 130
Toluene	0.100	0.1131		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1149		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2312		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1168		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-99689/2-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99689

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	8	35
Toluene	0.100	0.1055		mg/Kg		106	70 - 130	7	35
Ethylbenzene	0.100	0.1071		mg/Kg		107	70 - 130	7	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-99689/2-A

Matrix: Solid

Analysis Batch: 99628

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99689

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2156		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1092		mg/Kg		109	70 - 130	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	114		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

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

Lab Sample ID: MB 880-99661/1-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99661

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		01/07/25 09:48	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	112		70 - 130						
o-Terphenyl	114		70 - 130						

Lab Sample ID: LCS 880-99661/2-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99661

Analyte			Spike	LCS	LCS	Unit	D	%Rec		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	1360	*+	mg/Kg		136	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1425	*+	mg/Kg		143	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	155	S1+	70 - 130							
o-Terphenyl	147	S1+	70 - 130							

Lab Sample ID: LCSD 880-99661/3-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1412	*+	mg/Kg		141	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1450	*+	mg/Kg		145	70 - 130	2	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-99661/3-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99661

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	164	S1+	70 - 130
o-Terphenyl	155	S1+	70 - 130

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	107		70 - 130				01/07/25 10:51	01/07/25 18:47	1	
o-Terphenyl	110		70 - 130				01/07/25 10:51	01/07/25 18:47	1	

Lab Sample ID: LCS 880-99667/2-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99667

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1154		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1224		mg/Kg		122	70 - 130		
Surrogate	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	136	S1+	70 - 130							
o-Terphenyl	128		70 - 130							

Lab Sample ID: LCSD 880-99667/3-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99667

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	1174		mg/Kg		117	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)		1000	1280		mg/Kg		128	70 - 130	5	20	
Surrogate	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	137	S1+	70 - 130								
o-Terphenyl	130		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99621/1-A

Matrix: Solid

Analysis Batch: 99665

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			01/07/25 13:18	1

Lab Sample ID: LCS 880-99621/2-A

Matrix: Solid

Analysis Batch: 99665

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-99621/3-A

Matrix: Solid

Analysis Batch: 99665

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	234.0		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-99688/1-A

Matrix: Solid

Analysis Batch: 99697

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			01/08/25 02:45	1

Lab Sample ID: LCS 880-99688/2-A

Matrix: Solid

Analysis Batch: 99697

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.5		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-99688/3-A

Matrix: Solid

Analysis Batch: 99697

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	252.4		mg/Kg		101	90 - 110	1	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-2	HA - 8	Total/NA	Solid	8021B	99645
890-7537-3	HA - 8	Total/NA	Solid	8021B	99645
890-7537-4	HA - 8	Total/NA	Solid	8021B	99645
890-7537-5	HA - 8	Total/NA	Solid	8021B	99645
MB 880-99645/5-A	Method Blank	Total/NA	Solid	8021B	99645
LCS 880-99645/1-A	Lab Control Sample	Total/NA	Solid	8021B	99645
LCSD 880-99645/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99645

Analysis Batch: 99628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Total/NA	Solid	8021B	99689
MB 880-99631/5-A	Method Blank	Total/NA	Solid	8021B	99631
MB 880-99689/5-A	Method Blank	Total/NA	Solid	8021B	99689
LCS 880-99689/1-A	Lab Control Sample	Total/NA	Solid	8021B	99689
LCSD 880-99689/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99689

Prep Batch: 99631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99631/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-2	HA - 8	Total/NA	Solid	5035	
890-7537-3	HA - 8	Total/NA	Solid	5035	
890-7537-4	HA - 8	Total/NA	Solid	5035	
890-7537-5	HA - 8	Total/NA	Solid	5035	
MB 880-99645/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99645/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99645/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 99689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Total/NA	Solid	5035	
MB 880-99689/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99689/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99689/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Total/NA	Solid	Total BTEX	
890-7537-2	HA - 8	Total/NA	Solid	Total BTEX	
890-7537-3	HA - 8	Total/NA	Solid	Total BTEX	
890-7537-4	HA - 8	Total/NA	Solid	Total BTEX	
890-7537-5	HA - 8	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Total/NA	Solid	8015B NM	99661
890-7537-2	HA - 8	Total/NA	Solid	8015B NM	99661

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99653 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-3	HA - 8	Total/NA	Solid	8015B NM	99661
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015B NM	99661
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99661
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99661

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-4	HA - 8	Total/NA	Solid	8015B NM	99667
890-7537-5	HA - 8	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667

Prep Batch: 99661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Total/NA	Solid	8015NM Prep	
890-7537-2	HA - 8	Total/NA	Solid	8015NM Prep	
890-7537-3	HA - 8	Total/NA	Solid	8015NM Prep	
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-4	HA - 8	Total/NA	Solid	8015NM Prep	
890-7537-5	HA - 8	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Total/NA	Solid	8015 NM	
890-7537-2	HA - 8	Total/NA	Solid	8015 NM	
890-7537-3	HA - 8	Total/NA	Solid	8015 NM	
890-7537-4	HA - 8	Total/NA	Solid	8015 NM	
890-7537-5	HA - 8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Soluble	Solid	DI Leach	
MB 880-99621/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99621/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99621/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-1	HA - 8	Soluble	Solid	300.0	99621
MB 880-99621/1-A	Method Blank	Soluble	Solid	300.0	99621

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 99665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-99621/2-A	Lab Control Sample	Soluble	Solid	300.0	99621
LCSD 880-99621/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99621

Leach Batch: 99688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-2	HA - 8	Soluble	Solid	DI Leach	
890-7537-3	HA - 8	Soluble	Solid	DI Leach	
890-7537-4	HA - 8	Soluble	Solid	DI Leach	
890-7537-5	HA - 8	Soluble	Solid	DI Leach	
MB 880-99688/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99688/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7537-2	HA - 8	Soluble	Solid	300.0	99688
890-7537-3	HA - 8	Soluble	Solid	300.0	99688
890-7537-4	HA - 8	Soluble	Solid	300.0	99688
890-7537-5	HA - 8	Soluble	Solid	300.0	99688
MB 880-99688/1-A	Method Blank	Soluble	Solid	300.0	99688
LCS 880-99688/2-A	Lab Control Sample	Soluble	Solid	300.0	99688
LCSD 880-99688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99688

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-1

Date Collected: 01/03/25 11:30

Matrix: Solid

Date Received: 01/03/25 14:37

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	99689	01/07/25 13:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99628	01/08/25 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99731	01/08/25 03:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99766	01/07/25 20:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 20:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99621	01/07/25 08:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99665	01/07/25 15:46	CH	EET MID

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-2

Date Collected: 01/03/25 11:35

Matrix: Solid

Date Received: 01/03/25 14:37

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	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99731	01/07/25 17:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99766	01/08/25 00:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/08/25 00:59	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99688	01/07/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99697	01/08/25 11:02	SMC	EET MID

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-3

Date Collected: 01/03/25 11:40

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99731	01/07/25 17:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99766	01/08/25 01:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/08/25 01:13	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99688	01/07/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99697	01/08/25 11:10	SMC	EET MID

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-4

Date Collected: 01/03/25 11:45

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99731	01/07/25 18:17	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-4

Date Collected: 01/03/25 11:45

Matrix: Solid

Date Received: 01/03/25 14:37

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			99766	01/08/25 00:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/08/25 00:43	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99688	01/07/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99697	01/08/25 11:18	SMC	EET MID

Client Sample ID: HA - 8

Lab Sample ID: 890-7537-5

Date Collected: 01/03/25 11:50

Matrix: Solid

Date Received: 01/03/25 14:37

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	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99731	01/07/25 18:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99766	01/08/25 00:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/08/25 00:59	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99688	01/07/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99697	01/08/25 11:25	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: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
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

- 1
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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7537-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7537-1	HA - 8	Solid	01/03/25 11:30	01/03/25 14:37	0.5
890-7537-2	HA - 8	Solid	01/03/25 11:35	01/03/25 14:37	1
890-7537-3	HA - 8	Solid	01/03/25 11:40	01/03/25 14:37	2
890-7537-4	HA - 8	Solid	01/03/25 11:45	01/03/25 14:37	3
890-7537-5	HA - 8	Solid	01/03/25 11:50	01/03/25 14:37	4

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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 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Energy Permian
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:	Shaqius 26 St 1 Battery	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	2728	Due Date:	5 day TAT		
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gilbert Moreno				
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
Samples Received Inact:	☒ Yes ☒ No	Thermometer ID:	TW0007		
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.2		
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	0.8		
Total Containers:		Corrected Temperature:	0.0		



890-7537 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	ANALYSIS REQUEST																Preservative Codes
							TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush												
HA-8	S	1.3.24	11:30	0.5	Grab/	1	X	X	X														None: NO
HA-8	S	1.3.24	11:35	1	Grab/	1	X	X	X														DI Water: H ₂ O
HA-8	S	1.3.24	11:40	2	Grab/	1	X	X	X														pot: Cool
HA-8	S	1.3.24	11:45	3	Grab/	1	X	X	X														MeOH: Me
HA-8	S	1.3.24	11:50	4	Grab/	1	X	X	X														CL: HC
																							HNO ₃ : HN
																							pSO ₄ : H ₂
																							NaOH: Na
																							pPO ₄ : HP
																							bHSC ₄ : NABIS
																							a ₂ S ₂ O ₃ : NaSO ₃
																							Zn Acetate+NaOH: Zn
																							NaOH+Ascorbic Acid: SAPC
Sample Comments																							
Incident Number																							
nAPP2434144241																							

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mo Mn Ni K Se Ag SiO ₂ Na S Ti Sn U V Zn	
Notice:	Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. The signature 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
		11.27.23			

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7537-1

SDG Number: Eddy County, NM

Login Number: 7537

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.	False	Sample 001 was listed on the COC, but we did not receive a container for it
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: 890-7537-1

SDG Number: Eddy County, NM

Login Number: 7537

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:13 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 5/20/2025 12:19:01 PM Revision 1

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7538-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



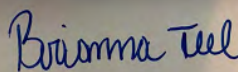
Eurofins Carlsbad

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



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

Generated
5/20/2025 12:19:01 PM
Revision 1

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7538-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
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
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.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1

Job ID: 890-7538-1

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Job Narrative 890-7538-1

REVISION

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

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 1/3/2025 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-9 (890-7538-1). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-99723/3-A) and (890-7529-A-19-C). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-9 (890-7538-2). Percent recoveries are based on the amount spiked.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

Client Sample ID: HA-9

Lab Sample ID: 890-7538-1

Date Collected: 01/03/25 11:55

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 17:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 17:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 17:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 17:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:40	01/07/25 17:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:40	01/07/25 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/07/25 08:40	01/07/25 17:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/07/25 08:40	01/07/25 17:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 17:16	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			01/08/25 01:13	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	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/08/25 01:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/08/25 01:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/08/25 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	01/07/25 16:19	01/08/25 01:13	1
o-Terphenyl	66	S1-	70 - 130	01/07/25 16:19	01/08/25 01:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		9.98		mg/Kg			01/08/25 11:33	1

Client Sample ID: HA-9

Lab Sample ID: 890-7538-2

Date Collected: 01/03/25 12:00

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 08:40	01/07/25 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 17:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 17:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 17:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/07/25 08:40	01/07/25 17:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

Client Sample ID: HA-9

Lab Sample ID: 890-7538-2

Date Collected: 01/03/25 12:00

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	01/07/25 08:40	01/07/25 17:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/07/25 17:36	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			01/08/25 16:22	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	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:45	01/08/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				01/07/25 16:45	01/08/25 16:22	1
o-Terphenyl	57	S1-	70 - 130				01/07/25 16:45	01/08/25 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		10.0		mg/Kg			01/08/25 11:41	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
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)
890-7538-1	HA-9	117	105
890-7538-2	HA-9	123	106
LCS 880-99630/1-A	Lab Control Sample	113	102
LCSD 880-99630/2-A	Lab Control Sample Dup	115	102
MB 880-99630/5-A	Method Blank	109	102
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)
890-7538-1	HA-9	66 S1-	66 S1-
890-7538-2	HA-9	60 S1-	57 S1-
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128
LCS 880-99723/2-A	Lab Control Sample	125	114
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130
LCSD 880-99723/3-A	Lab Control Sample Dup	131 S1+	116
MB 880-99667/1-A	Method Blank	107	110
MB 880-99723/1-A	Method Blank	111	115
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99630/5-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/07/25 08:40	01/07/25 11:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/07/25 08:40	01/07/25 11:14	1

Lab Sample ID: LCS 880-99630/1-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.1022		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2079		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-99630/2-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130	5	35
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

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		01/07/25 10:51	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/07/25 10:51	01/07/25 18:47	1
o-Terphenyl	110		70 - 130				01/07/25 10:51	01/07/25 18:47	1

Lab Sample ID: LCS 880-99667/2-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130	
Surrogate	%Recovery	LCS Qualifier	Limits					
1-Chlorooctane	136	S1+	70 - 130					
o-Terphenyl	128		70 - 130					

Lab Sample ID: LCSD 880-99667/3-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	5	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	130		70 - 130						

Lab Sample ID: MB 880-99723/1-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99723

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		01/07/25 16:44	01/08/25 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:44	01/08/25 02:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:44	01/08/25 02:28	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99723/1-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99723

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	01/07/25 16:44	01/08/25 02:28	1
o-Terphenyl	115		70 - 130	01/07/25 16:44	01/08/25 02:28	1

Lab Sample ID: LCS 880-99723/2-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	937.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-99723/3-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	972.5		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1111		mg/Kg		111	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	116		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99688/1-A

Matrix: Solid

Analysis Batch: 99697

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			01/08/25 02:45	1

Lab Sample ID: LCS 880-99688/2-A

Matrix: Solid

Analysis Batch: 99697

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.5		mg/Kg		102	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-99688/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99697									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.4		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Total/NA	Solid	8021B	99630
890-7538-2	HA-9	Total/NA	Solid	8021B	99630
MB 880-99630/5-A	Method Blank	Total/NA	Solid	8021B	99630
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	8021B	99630
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99630

Prep Batch: 99630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Total/NA	Solid	5035	
890-7538-2	HA-9	Total/NA	Solid	5035	
MB 880-99630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Total/NA	Solid	Total BTEX	
890-7538-2	HA-9	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 99723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-2	HA-9	Total/NA	Solid	8015NM Prep	
MB 880-99723/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99723/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Total/NA	Solid	8015 NM	
890-7538-2	HA-9	Total/NA	Solid	8015 NM	

Analysis Batch: 99796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-2	HA-9	Total/NA	Solid	8015B NM	99723
MB 880-99723/1-A	Method Blank	Total/NA	Solid	8015B NM	99723

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-99723/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99723
LCSD 880-99723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99723

HPLC/IC

Leach Batch: 99688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Soluble	Solid	DI Leach	
890-7538-2	HA-9	Soluble	Solid	DI Leach	
MB 880-99688/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99688/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7538-1	HA-9	Soluble	Solid	300.0	99688
890-7538-2	HA-9	Soluble	Solid	300.0	99688
MB 880-99688/1-A	Method Blank	Soluble	Solid	300.0	99688
LCS 880-99688/2-A	Lab Control Sample	Soluble	Solid	300.0	99688
LCSD 880-99688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99688

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

Client Sample ID: HA-9**Lab Sample ID: 890-7538-1****Date Collected: 01/03/25 11:55****Matrix: Solid****Date Received: 01/03/25 14:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99630	01/07/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99626	01/07/25 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99789	01/07/25 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99775	01/08/25 01:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/08/25 01:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99688	01/07/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99697	01/08/25 11:33	SMC	EET MID

Client Sample ID: HA-9**Lab Sample ID: 890-7538-2****Date Collected: 01/03/25 12:00****Matrix: Solid****Date Received: 01/03/25 14:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99630	01/07/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99626	01/07/25 17:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99789	01/07/25 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99775	01/08/25 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99723	01/07/25 16:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/08/25 16:22	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99688	01/07/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99697	01/08/25 11:41	SMC	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: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7538-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7538-1	HA-9	Solid	01/03/25 11:55	01/03/25 14:37	0.5
890-7538-2	HA-9	Solid	01/03/25 12:00	01/03/25 14:37	1

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



Environment Testing
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Work Order No:

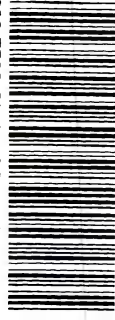
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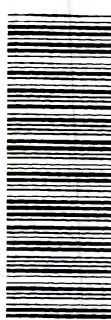
Chain of Custody

Project Manager:	Gilbert Moreno	Bill to (if different):	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Energy Permian
Address:	1910 Resource Ct	Address:	
City, State ZIP	Carlsbad, NM, 88320	City, State ZIP:	
Phone:	832-541-7719	Email	gmoreno@earthsys.net

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

ANALYSIS REQUEST										Preservative Codes	
Project Name	Shaglus 26 St. 1 Battery	Turn Around	Project Number	2726	☒ Routine ☐ Rush	First Code	None: NO	DI Water: H ₂ O			
Project Location	Eddy County, NM	Due Date	5 day TAT				Cool: MeOH: Me				
Sample's Name	Gilbert Moreno	TAT starts the day received by the lab if received by 4:30pm					HC	HNO ₃ : HN			
PO #							H ₂	NaOH: Na			
SAMPLE RECEIPT Samples Received Intact: ☒ Yes ☐ No Thermometer ID: <u>Therm. 07</u> Cooler Custody Seals: ☒ Yes ☐ No ☒ N/A Correction Factor: <u>-0.2</u> Sample Custody Seals: ☒ Yes ☐ No ☒ N/A Temperature Reading: <u>0.2</u> Total Containers: <u>0.0</u> Corrected Temperature: <u>0.0</u>											
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	Parameters			
HA-9	S	13.25	11:55	0.5	Grab/	1	1	TPH-NM			
HA-9	S	13.38	12:00	1	Grab/	1	1	Chloride-NM			
								BTEX-NM			
								Hold			
								24 Hr Rush			
 890-7538 Chain of Custody											
celate--NaOH: Zn NaOH+Ascorbic Acid: SAPC											
Sample Comments Incident Number NAPP2434144241											

890-7538 Chain of Custody



Preservative Codes	
None: NO	DI Water:
Cool: Cool	MeOH: Me
	UNQ: UN

celate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comment	Incident Number
	nAPP2434144241

Total	200.7 / 6010	200.8 / 6020:
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ERCRA 13PPM Test

Hg: 1631/245.1/7470/747

Relinquished by (Signature)

Received by: (Signature)

Date/Time	Location	Activity	Remarks
12/17			

Relinquished by: (Signature)

Received by: (Signature)

Date / Time

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7538-1

SDG Number: Eddy County, NM

Login Number: 7538

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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.	N/A	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: 890-7538-1

SDG Number: Eddy County, NM

Login Number: 7538

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:13 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 1/8/2025 11:18:24 AM Revision 1

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7535-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



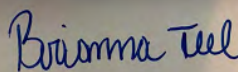
Eurofins Carlsbad

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



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

Generated
1/8/2025 11:18:24 AM
Revision 1

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7535-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
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, low biased.
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: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1

Job ID: 890-7535-1**Eurofins Carlsbad****Job Narrative
890-7535-1**REVISION

The report being provided is a revision of the original report sent on 1/8/2025. The report (revision 1) is being revised due to Revised to correct project name.

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 1/3/2025 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-99645 and analytical batch 880-99624 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-10 (890-7535-1), HA-10 (890-7535-2) and HA-10 (890-7535-3). Percent recoveries are based on the amount spiked.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Client Sample ID: HA-10

Lab Sample ID: 890-7535-1

Date Collected: 01/03/25 12:15

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 18:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 18:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 18:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 18:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 18:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/07/25 08:58	01/07/25 18:58	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/07/25 08:58	01/07/25 18:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 18:58	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			01/07/25 23:16	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		01/07/25 16:19	01/07/25 23:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/07/25 23:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/07/25 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	01/07/25 16:19	01/07/25 23:16	1
o-Terphenyl	61	S1-	70 - 130	01/07/25 16:19	01/07/25 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		10.0		mg/Kg			01/07/25 21:41	1

Client Sample ID: HA-10

Lab Sample ID: 890-7535-2

Date Collected: 01/03/25 12:20

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 08:58	01/07/25 19:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 19:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:58	01/07/25 19:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:58	01/07/25 19:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:58	01/07/25 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/07/25 08:58	01/07/25 19:19	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Client Sample ID: HA-10

Lab Sample ID: 890-7535-2

Date Collected: 01/03/25 12:20

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	01/07/25 08:58	01/07/25 19:19	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			01/07/25 19:19	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			01/07/25 23:29	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	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/07/25 23:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/07/25 23:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/07/25 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				01/07/25 16:19	01/07/25 23:29	1
o-Terphenyl	62	S1-	70 - 130				01/07/25 16:19	01/07/25 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		9.94		mg/Kg			01/07/25 21:46	1

Client Sample ID: HA-10

Lab Sample ID: 890-7535-3

Date Collected: 01/03/25 12:25

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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		01/07/25 08:58	01/07/25 19:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 19:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 19:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 19:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 19:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/07/25 08:58	01/07/25 19:39	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/07/25 08:58	01/07/25 19:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/07/25 19:39	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			01/07/25 23:45	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Client Sample ID: HA-10

Lab Sample ID: 890-7535-3

Date Collected: 01/03/25 12:25

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/07/25 16:19	01/07/25 23:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/07/25 16:19	01/07/25 23:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 16:19	01/07/25 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				01/07/25 16:19	01/07/25 23:45	1
o-Terphenyl	63	S1-	70 - 130				01/07/25 16:19	01/07/25 23:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		10.0		mg/Kg			01/07/25 21:52	1

Client Sample ID: HA-10

Lab Sample ID: 890-7535-4

Date Collected: 01/03/25 12:30

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 20:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 20:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 20:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 20:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 20:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				01/07/25 08:58	01/07/25 20:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130				01/07/25 08:58	01/07/25 20:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 20:00	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			01/07/25 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/07/25 23:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/07/25 23:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 16:19	01/07/25 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				01/07/25 16:19	01/07/25 23:59	1
o-Terphenyl	126		70 - 130				01/07/25 16:19	01/07/25 23:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Client Sample ID: HA-10
Date Collected: 01/03/25 12:30
Date Received: 01/03/25 14:37
Sample Depth: 3

Lab Sample ID: 890-7535-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		10.0		mg/Kg			01/07/25 21:58	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
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	DFBZ1
		(70-130)	(70-130)
890-7535-1	HA-10	122	105
890-7535-2	HA-10	111	101
890-7535-3	HA-10	126	107
890-7535-4	HA-10	123	110
LCS 880-99645/1-A	Lab Control Sample	110	104
LCSD 880-99645/2-A	Lab Control Sample Dup	108	98
MB 880-99645/5-A	Method Blank	203 S1+	124

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	OTPH1
		(70-130)	(70-130)
890-7535-1	HA-10	64 S1-	61 S1-
890-7535-2	HA-10	64 S1-	62 S1-
890-7535-3	HA-10	65 S1-	63 S1-
890-7535-4	HA-10	130	126
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130
MB 880-99667/1-A	Method Blank	107	110

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99645/5-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130	01/07/25 08:58	01/07/25 11:33	1
1,4-Difluorobenzene (Surr)	124		70 - 130	01/07/25 08:58	01/07/25 11:33	1

Lab Sample ID: LCS 880-99645/1-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1130		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2394		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1133		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-99645/2-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1029		mg/Kg		103	70 - 130	5	35
Toluene	0.100	0.09926		mg/Kg		99	70 - 130	13	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	8	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

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		01/07/25 10:51	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/07/25 10:51	01/07/25 18:47	1
o-Terphenyl	110		70 - 130				01/07/25 10:51	01/07/25 18:47	1

Lab Sample ID: LCS 880-99667/2-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130	
Surrogate	%Recovery	LCS Qualifier	Limits					
1-Chlorooctane	136	S1+	70 - 130					
o-Terphenyl	128		70 - 130					

Lab Sample ID: LCSD 880-99667/3-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	5	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	130		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99687/1-A

Matrix: Solid

Analysis Batch: 99696

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			01/07/25 19:19	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99687/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99696									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	268.4		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-99687/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99696									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.9		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Total/NA	Solid	8021B	99645
890-7535-2	HA-10	Total/NA	Solid	8021B	99645
890-7535-3	HA-10	Total/NA	Solid	8021B	99645
890-7535-4	HA-10	Total/NA	Solid	8021B	99645
MB 880-99645/5-A	Method Blank	Total/NA	Solid	8021B	99645
LCS 880-99645/1-A	Lab Control Sample	Total/NA	Solid	8021B	99645
LCSD 880-99645/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99645

Prep Batch: 99645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Total/NA	Solid	5035	
890-7535-2	HA-10	Total/NA	Solid	5035	
890-7535-3	HA-10	Total/NA	Solid	5035	
890-7535-4	HA-10	Total/NA	Solid	5035	
MB 880-99645/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99645/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99645/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Total/NA	Solid	Total BTEX	
890-7535-2	HA-10	Total/NA	Solid	Total BTEX	
890-7535-3	HA-10	Total/NA	Solid	Total BTEX	
890-7535-4	HA-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Total/NA	Solid	8015B NM	99667
890-7535-2	HA-10	Total/NA	Solid	8015B NM	99667
890-7535-3	HA-10	Total/NA	Solid	8015B NM	99667
890-7535-4	HA-10	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Total/NA	Solid	8015NM Prep	
890-7535-2	HA-10	Total/NA	Solid	8015NM Prep	
890-7535-3	HA-10	Total/NA	Solid	8015NM Prep	
890-7535-4	HA-10	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Total/NA	Solid	8015 NM	
890-7535-2	HA-10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 99773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-3	HA-10	Total/NA	Solid	8015 NM	
890-7535-4	HA-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Soluble	Solid	DI Leach	
890-7535-2	HA-10	Soluble	Solid	DI Leach	
890-7535-3	HA-10	Soluble	Solid	DI Leach	
890-7535-4	HA-10	Soluble	Solid	DI Leach	
MB 880-99687/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7535-1	HA-10	Soluble	Solid	300.0	99687
890-7535-2	HA-10	Soluble	Solid	300.0	99687
890-7535-3	HA-10	Soluble	Solid	300.0	99687
890-7535-4	HA-10	Soluble	Solid	300.0	99687
MB 880-99687/1-A	Method Blank	Soluble	Solid	300.0	99687
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	300.0	99687
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99687

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Client Sample ID: HA-10**Lab Sample ID: 890-7535-1****Date Collected: 01/03/25 12:15****Matrix: Solid****Date Received: 01/03/25 14:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99799	01/07/25 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			99773	01/07/25 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 23:16	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 21:41	CH	EET MID

Client Sample ID: HA-10**Lab Sample ID: 890-7535-2****Date Collected: 01/03/25 12:20****Matrix: Solid****Date Received: 01/03/25 14:37**

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	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99799	01/07/25 19:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			99773	01/07/25 23:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 23:29	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 21:46	CH	EET MID

Client Sample ID: HA-10**Lab Sample ID: 890-7535-3****Date Collected: 01/03/25 12:25****Matrix: Solid****Date Received: 01/03/25 14:37**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99799	01/07/25 19:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			99773	01/07/25 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 23:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 21:52	CH	EET MID

Client Sample ID: HA-10**Lab Sample ID: 890-7535-4****Date Collected: 01/03/25 12:30****Matrix: Solid****Date Received: 01/03/25 14:37**

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	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99799	01/07/25 20:00	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Client Sample ID: HA-10
Date Collected: 01/03/25 12:30
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7535-4
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			99773	01/07/25 23:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/07/25 23:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 21:58	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: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7535-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7535-1	HA-10	Solid	01/03/25 12:15	01/03/25 14:37	0.5
890-7535-2	HA-10	Solid	01/03/25 12:20	01/03/25 14:37	1
890-7535-3	HA-10	Solid	01/03/25 12:25	01/03/25 14:37	2
890-7535-4	HA-10	Solid	01/03/25 12:30	01/03/25 14:37	3

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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) 382-7550, Carlsbad, NM (575) 986-3189

Work Order No: _____

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Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WFX Energy Permian
Address:	1910 Resource Ct	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-641-7719	Email:	gmorono@earthsys.net

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

Project Name:	Shaglus 26 St 1 Battery	Turn Around	Pre Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	2728	☒ Routine ☐ Rush			None: NO DI Water: H ₂ O
Project Location:	Eddy County, NM	Due Date:	5 day 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
PO #:					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Well Ice:	Yes No
Samples Received Inact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No	Correction Factor:			
Sample Custody Seals:	Yes No	Temperature Reading:			
Total Containers:		Corrected Temperature:			

890-7535 Chain of Custody



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-10	S	13-19	12-15	0.5	Grab/ 1	X	X	X	X			Incident Number nAPP2434144241
HA-10	S	13-24	12-20	1	Grab/ 1	X	X	X	X			
HA-10	S	13-24	12-25	2	Grab/ 1	X	X	X	X			
HA-10	S	13-24	12-30	3	Grab/ 1	X	X	X	X			

Total 200.7 / 6010 200.8 / 6020:

PRCBA 13PBA Texas 11 AL Sb As Ba Be B Cd Cr Co Cu Fe Pb Mn Mo Ni Rb Sr Tl U V W Zn

Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time



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

890-7335 Chain of Custody



Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Energy Permian
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: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other: ☐

Project Name:		Shaqus 26 St 1 Battery		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number:		2728		☒ Routine ☐ Rush																None: NO	DI Water: H ₂ O
Project Location:		Eddy County, NM		Due Date: 5 day 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
PO #:																				H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No	Well Ice:	☒ Yes ☐ No															H ₃ PO ₄ : HP	
Samples Received Intact:		☒ Yes ☐ No	Thermometer ID:	TPM07																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:	0.2																Zn Acetate+NaOH: Zn	
Total Containers:		☒ Yes ☐ No	Corrected Temperature:	0.0																NaOH+Ascorbic Acid: SACP	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont													Sample Comments	
HA-10		S	1.3.25	12:15	0.5	Grab/	1	X	X	X										Incident Number	
HA-10		S	1.3.25	12:20	1	Grab/	1	X	X	X										nAPP2434144241	
HA-10		S	1.3.25	12:25	2	Grab/	1	X	X	X											
HA-10		S	1.3.25	12:30	3	Grab/	1	X	X	X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Ne Sr H Sn U V Zn
Circle (interior(s) and (metal(s) to be analyzed

Notice: Signature of this document and relinquishment of sample 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>	11:33 / 1/5	<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



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7535-1

SDG Number: 2728

Login Number: 7535

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: 890-7535-1

SDG Number: 2728

Login Number: 7535

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:14 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 1/8/2025 10:15:32 AM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7536-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



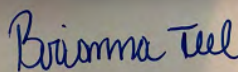
Eurofins Carlsbad

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
1/8/2025 10:15:32 AM

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

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7536-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
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
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.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1

Job ID: 890-7536-1

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Job Narrative 890-7536-1

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 1/3/2025 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 11 (890-7536-1) and HA - 11 (890-7536-2).

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-99667/2-A) and (LCSD 880-99667/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99655/58).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA - 11 (890-7536-1) and HA - 11 (890-7536-2). Percent recoveries are based on the amount spiked.

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: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

Client Sample ID: HA - 11

Lab Sample ID: 890-7536-1

Date Collected: 01/03/25 12:35

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 08:52	01/07/25 18:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:52	01/07/25 18:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:52	01/07/25 18:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:52	01/07/25 18:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:52	01/07/25 18:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:52	01/07/25 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	01/07/25 08:52	01/07/25 18:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:52	01/07/25 18:26	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			01/07/25 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/08/25 00:14	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		01/07/25 16:19	01/08/25 00:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/08/25 00:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 16:19	01/08/25 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	01/07/25 16:19	01/08/25 00:14	1
o-Terphenyl	66	S1-	70 - 130	01/07/25 16:19	01/08/25 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		10.0		mg/Kg			01/07/25 22:03	1

Client Sample ID: HA - 11

Lab Sample ID: 890-7536-2

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 18:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 18:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 18:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:52	01/07/25 18:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 18:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:52	01/07/25 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/07/25 08:52	01/07/25 18:47	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

Client Sample ID: HA - 11

Lab Sample ID: 890-7536-2

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:52	01/07/25 18:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 00:29	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	<49.9	U	49.9		mg/Kg		01/07/25 16:19	01/08/25 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/25 16:19	01/08/25 00:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 16:19	01/08/25 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				01/07/25 16:19	01/08/25 00:29	1
o-Terphenyl	61	S1-	70 - 130				01/07/25 16:19	01/08/25 00:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		10.1		mg/Kg			01/07/25 22:09	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
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)
890-7536-1	HA - 11	89	91
890-7536-2	HA - 11	91	91
LCS 880-99644/1-A	Lab Control Sample	109	100
LCSD 880-99644/2-A	Lab Control Sample Dup	95	101
MB 880-99644/5-A	Method Blank	90	91
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)
890-7536-1	HA - 11	67 S1-	66 S1-
890-7536-2	HA - 11	64 S1-	61 S1-
LCS 880-99667/2-A	Lab Control Sample	136 S1+	128
LCSD 880-99667/3-A	Lab Control Sample Dup	137 S1+	130
MB 880-99667/1-A	Method Blank	107	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99644/5-A

Matrix: Solid

Analysis Batch: 99623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:52	01/07/25 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/07/25 08:52	01/07/25 11:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:52	01/07/25 11:54	1

Lab Sample ID: LCS 880-99644/1-A

Matrix: Solid

Analysis Batch: 99623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09995		mg/Kg		100	70 - 130
Toluene	0.100	0.1025		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2305		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-99644/2-A

Matrix: Solid

Analysis Batch: 99623

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1025		mg/Kg		102	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1988		mg/Kg		99	70 - 130	15	35
o-Xylene	0.100	0.09726		mg/Kg		97	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99667/1-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99667

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		01/07/25 10:51	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 10:51	01/07/25 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				01/07/25 10:51	01/07/25 18:47	1
o-Terphenyl	110		70 - 130				01/07/25 10:51	01/07/25 18:47	1

Lab Sample ID: LCS 880-99667/2-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1224		mg/Kg		122	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	136	S1+	70 - 130				
o-Terphenyl	128		70 - 130				

Lab Sample ID: LCSD 880-99667/3-A

Matrix: Solid

Analysis Batch: 99655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	130		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99687/1-A

Matrix: Solid

Analysis Batch: 99696

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			01/07/25 19:19	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99687/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99696									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	268.4		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-99687/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99696									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.9		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Total/NA	Solid	8021B	99644
890-7536-2	HA - 11	Total/NA	Solid	8021B	99644
MB 880-99644/5-A	Method Blank	Total/NA	Solid	8021B	99644
LCS 880-99644/1-A	Lab Control Sample	Total/NA	Solid	8021B	99644
LCSD 880-99644/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99644

Prep Batch: 99644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Total/NA	Solid	5035	
890-7536-2	HA - 11	Total/NA	Solid	5035	
MB 880-99644/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99644/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99644/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Total/NA	Solid	Total BTEX	
890-7536-2	HA - 11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Total/NA	Solid	8015B NM	99667
890-7536-2	HA - 11	Total/NA	Solid	8015B NM	99667
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015B NM	99667
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99667
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99667

Prep Batch: 99667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Total/NA	Solid	8015NM Prep	
890-7536-2	HA - 11	Total/NA	Solid	8015NM Prep	
MB 880-99667/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99667/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99667/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Total/NA	Solid	8015 NM	
890-7536-2	HA - 11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Soluble	Solid	DI Leach	
890-7536-2	HA - 11	Soluble	Solid	DI Leach	
MB 880-99687/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 99696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7536-1	HA - 11	Soluble	Solid	300.0	99687
890-7536-2	HA - 11	Soluble	Solid	300.0	99687
MB 880-99687/1-A	Method Blank	Soluble	Solid	300.0	99687
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	300.0	99687
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99687

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

Client Sample ID: HA - 11

Lab Sample ID: 890-7536-1

Date Collected: 01/03/25 12:35

Matrix: Solid

Date Received: 01/03/25 14:37

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	99644	01/07/25 08:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99623	01/07/25 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99797	01/07/25 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			99774	01/08/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/08/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 22:03	CH	EET MID

Client Sample ID: HA - 11

Lab Sample ID: 890-7536-2

Date Collected: 01/03/25 12:40

Matrix: Solid

Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99644	01/07/25 08:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99623	01/07/25 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99797	01/07/25 18:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			99774	01/08/25 00:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99667	01/07/25 16:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99655	01/08/25 00:29	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 22:09	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: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7536-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7536-1	HA - 11	Solid	01/03/25 12:35	01/03/25 14:37	0.5
890-7536-2	HA - 11	Solid	01/03/25 12:40	01/03/25 14:37	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) 968-3199

Work Order No: _____

www.xenco.com

Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WFPX Energy Permian
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: EDO ☐ ADAPT ☐ Other: _____

Project Name:	Shedius 26 St 1 Battery	Turn Around	☒ Routine ☐ Rush	Due Date:	5 day TAT
Project Number:	2726	TAT starts the day received by the lab, if received by 4:30pm			
Project Location:	Eddy County, NM				
Sampler's Name:	Gilbert Moreno				
PO #:					
SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	
Samples Received Initial:	Yes ☒ No ☐	Thermometer ID:	THERM 7		
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.2		
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	0.2		
Total Containers:		Corrected Temperature:	0.0		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp
HA-11	S	1.3.38	12:35	0.5	Grab
HA-11	S	1.3.38	12:40	1	Grab
Parameters					
TPH -NM					
Chloride -NM					
BTEX -NM					
Hold					
24 Hr Rush					
ANALYSIS REQUEST					
Preservative Codes					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SACP					
Sample Comments					
Incident Number					
NAPP2434144241					



Total	200.7 / 6010	200.8 / 6020:	ARCBA 13PM, Texas 11 Al Sb As Ba B Cd Ca Cr Co Cu Fe Pb Mn Mo Ni K Sr Ag SO ₂ NH ₄ S-H SO ₄ V Cr		
Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, Inc. and its subsidiaries and affiliates. Testing standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or damages incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$15.00 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>Gilbert Moreno</i>	<i>Jim Raley</i>	11/17/23			

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7536-1
SDG Number: Eddy County, NM

Login Number: 7536

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: 890-7536-1

SDG Number: Eddy County, NM

Login Number: 7536

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:14 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	



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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 1/8/2025 10:14:54 AM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7534-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



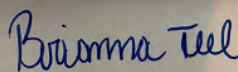
Eurofins Carlsbad

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
1/8/2025 10:14:54 AM

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

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7534-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

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
SQL	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: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1

Job ID: 890-7534-1

Eurofins Carlsbad

Job Narrative 890-7534-1

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 1/3/2025 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 12 (890-7534-1), HA - 12 (890-7534-2) and HA - 12 (890-7534-3).

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-99661/2-A) and (LCSD 880-99661/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99661 and analytical batch 880-99653 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA - 12 (890-7534-2) and HA - 12 (890-7534-3). 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: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-1

Date Collected: 01/03/25 12:45

Matrix: Solid

Date Received: 01/03/25 14:34

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		01/07/25 08:52	01/07/25 19:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:52	01/07/25 19:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:52	01/07/25 19:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:52	01/07/25 19:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:52	01/07/25 19:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:52	01/07/25 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/07/25 08:52	01/07/25 19:07	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:52	01/07/25 19:07	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			01/07/25 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 00:14	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		01/07/25 09:48	01/08/25 00:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	01/07/25 09:48	01/08/25 00:14	1
o-Terphenyl	71		70 - 130	01/07/25 09:48	01/08/25 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2780		50.0		mg/Kg			01/07/25 21:12	5

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-2

Date Collected: 01/03/25 12:50

Matrix: Solid

Date Received: 01/03/25 14:34

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		01/07/25 08:52	01/07/25 19:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 19:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 19:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:52	01/07/25 19:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 19:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:52	01/07/25 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/07/25 08:52	01/07/25 19:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-2

Date Collected: 01/03/25 12:50

Matrix: Solid

Date Received: 01/03/25 14:34

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	77		70 - 130	01/07/25 08:52	01/07/25 19:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/07/25 19:28	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			01/08/25 00:29	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	<49.9	U *+	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/07/25 09:48	01/08/25 00:29	1
o-Terphenyl	66	S1-	70 - 130				01/07/25 09:48	01/08/25 00:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		10.0		mg/Kg			01/07/25 21:18	1

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-3

Date Collected: 01/03/25 12:55

Matrix: Solid

Date Received: 01/03/25 14:34

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 19:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 19:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 19:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:52	01/07/25 19:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:52	01/07/25 19:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:52	01/07/25 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	01/07/25 08:52	01/07/25 19:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/07/25 08:52	01/07/25 19:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 00:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-3

Date Collected: 01/03/25 12:55

Matrix: Solid

Date Received: 01/03/25 14:34

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:48	01/08/25 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/07/25 09:48	01/08/25 00:43	1
o-Terphenyl	69	S1-	70 - 130				01/07/25 09:48	01/08/25 00:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		9.96		mg/Kg			01/07/25 21:35	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
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)
890-7534-1	HA - 12	95	91
890-7534-2	HA - 12	96	77
890-7534-3	HA - 12	88	90
LCS 880-99644/1-A	Lab Control Sample	109	100
LCSD 880-99644/2-A	Lab Control Sample Dup	95	101
MB 880-99644/5-A	Method Blank	90	91
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)
890-7534-1	HA - 12	76	71
890-7534-2	HA - 12	71	66 S1-
890-7534-3	HA - 12	73	69 S1-
LCS 880-99661/2-A	Lab Control Sample	155 S1+	147 S1+
LCSD 880-99661/3-A	Lab Control Sample Dup	164 S1+	155 S1+
MB 880-99661/1-A	Method Blank	112	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99644/5-A

Matrix: Solid

Analysis Batch: 99623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:52	01/07/25 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:52	01/07/25 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/07/25 08:52	01/07/25 11:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/07/25 08:52	01/07/25 11:54	1

Lab Sample ID: LCS 880-99644/1-A

Matrix: Solid

Analysis Batch: 99623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09995		mg/Kg		100	70 - 130
Toluene	0.100	0.1025		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2305		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-99644/2-A

Matrix: Solid

Analysis Batch: 99623

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1025		mg/Kg		102	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1988		mg/Kg		99	70 - 130	15	35
o-Xylene	0.100	0.09726		mg/Kg		97	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99661/1-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99661

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		01/07/25 09:48	01/07/25 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				01/07/25 09:48	01/07/25 18:47	1
o-Terphenyl	114		70 - 130				01/07/25 09:48	01/07/25 18:47	1

Lab Sample ID: LCS 880-99661/2-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1360	*+	mg/Kg		136	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1425	*+	mg/Kg		143	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	155	S1+	70 - 130				
o-Terphenyl	147	S1+	70 - 130				

Lab Sample ID: LCSD 880-99661/3-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1412	*+	mg/Kg		141	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1450	*+	mg/Kg		145	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	164	S1+	70 - 130						
o-Terphenyl	155	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99687/1-A

Matrix: Solid

Analysis Batch: 99696

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			01/07/25 19:19	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99687/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99696									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	268.4		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-99687/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 99696									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.9		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Total/NA	Solid	8021B	99644
890-7534-2	HA - 12	Total/NA	Solid	8021B	99644
890-7534-3	HA - 12	Total/NA	Solid	8021B	99644
MB 880-99644/5-A	Method Blank	Total/NA	Solid	8021B	99644
LCS 880-99644/1-A	Lab Control Sample	Total/NA	Solid	8021B	99644
LCSD 880-99644/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99644

Prep Batch: 99644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Total/NA	Solid	5035	
890-7534-2	HA - 12	Total/NA	Solid	5035	
890-7534-3	HA - 12	Total/NA	Solid	5035	
MB 880-99644/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99644/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99644/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Total/NA	Solid	Total BTEX	
890-7534-2	HA - 12	Total/NA	Solid	Total BTEX	
890-7534-3	HA - 12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Total/NA	Solid	8015B NM	99661
890-7534-2	HA - 12	Total/NA	Solid	8015B NM	99661
890-7534-3	HA - 12	Total/NA	Solid	8015B NM	99661
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015B NM	99661
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99661
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99661

Prep Batch: 99661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Total/NA	Solid	8015NM Prep	
890-7534-2	HA - 12	Total/NA	Solid	8015NM Prep	
890-7534-3	HA - 12	Total/NA	Solid	8015NM Prep	
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Total/NA	Solid	8015 NM	
890-7534-2	HA - 12	Total/NA	Solid	8015 NM	
890-7534-3	HA - 12	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

HPLC/IC

Leach Batch: 99687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Soluble	Solid	DI Leach	
890-7534-2	HA - 12	Soluble	Solid	DI Leach	
890-7534-3	HA - 12	Soluble	Solid	DI Leach	
MB 880-99687/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7534-1	HA - 12	Soluble	Solid	300.0	99687
890-7534-2	HA - 12	Soluble	Solid	300.0	99687
890-7534-3	HA - 12	Soluble	Solid	300.0	99687
MB 880-99687/1-A	Method Blank	Soluble	Solid	300.0	99687
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	300.0	99687
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99687

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-1

Date Collected: 01/03/25 12:45

Matrix: Solid

Date Received: 01/03/25 14:34

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	99644	01/07/25 08:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99623	01/07/25 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99798	01/07/25 19:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			99769	01/08/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/08/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99696	01/07/25 21:12	CH	EET MID

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-2

Date Collected: 01/03/25 12:50

Matrix: Solid

Date Received: 01/03/25 14:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99644	01/07/25 08:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99623	01/07/25 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99798	01/07/25 19:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			99769	01/08/25 00:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/08/25 00:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 21:18	CH	EET MID

Client Sample ID: HA - 12

Lab Sample ID: 890-7534-3

Date Collected: 01/03/25 12:55

Matrix: Solid

Date Received: 01/03/25 14:34

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	99644	01/07/25 08:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99623	01/07/25 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99798	01/07/25 19:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			99769	01/08/25 00:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/08/25 00:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 21:35	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: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7534-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7534-1	HA - 12	Solid	01/03/25 12:45	01/03/25 14:34	0.5
890-7534-2	HA - 12	Solid	01/03/25 12:50	01/03/25 14:34	1
890-7534-3	HA - 12	Solid	01/03/25 12:55	01/03/25 14:34	2

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Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
McLennan, 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) 886-3199

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Energy Permian
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorono@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:	Shaqius 26 St 1 Battery		Turn Around	Pre Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	2728		☐ Routine ☐ Rush				None: NO ☐ DI Water: H ₂ O
Project Location:	Eddy County, NM		Due Date:	5 day 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
PO #:			Temp Blank:	☒ Yes ☐ No			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:	☒ Yes ☐ No	Thermometer ID:	170007				NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2				Na ₂ S ₂ O ₈ : NaSO ₃
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	0.2				Zn Acetate+NaOH: Zn
Total Containers:	☒ Yes ☐ No	Corrected Temperature:	0.0				NaOH+Ascorbic Acid: SACP

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-12	S	13/10/2020	12:45	0.5	Grab/1	1	X	X	X			Incident Number NAPP2434144241
HA-12	S	13/11/2020	12:50	1	Grab/1	1	X	X	X			
HA-12	S	13/25/2020	12:55	2	Grab/1	1	X	X	X			



890-7534 Chain of Custody

Total 200.7 / 6010 200.8 / 6020:

BRCA 13PM Texas 11 Al Sb As Ba Br Cl Ga Ge In Ir Mo Ni Pb Se Sn Te U V W X Y Z

Hq: 1631 / 245 / 17470 / 17471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	14:17 / 17			

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7534-1

SDG Number: Eddy County, NM

Login Number: 7534

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: 890-7534-1

SDG Number: Eddy County, NM

Login Number: 7534

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:15 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 1/8/2025 10:56:12 AM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-7533-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



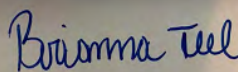
Eurofins Carlsbad

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
1/8/2025 10:56:12 AM

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

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7533-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1

Job ID: 890-7533-1

Eurofins Carlsbad

Job Narrative 890-7533-1

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 1/3/2025 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

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: Surrogate recovery for the following samples were outside control limits: (LCS 880-99661/2-A) and (LCSD 880-99661/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99661 and analytical batch 880-99653 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-99687 and analytical batch 880-99696 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: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

Client Sample ID: HA-13

Lab Sample ID: 890-7533-1

Date Collected: 01/03/25 13:00

Matrix: Solid

Date Received: 01/03/25 14:37

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		01/07/25 08:40	01/07/25 16:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 16:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 16:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 16:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 08:40	01/07/25 16:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 08:40	01/07/25 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/07/25 08:40	01/07/25 16:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/07/25 08:40	01/07/25 16:55	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			01/07/25 16:55	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			01/07/25 23:45	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	<50.0	U **	50.0		mg/Kg		01/07/25 09:48	01/07/25 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		01/07/25 09:48	01/07/25 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	01/07/25 09:48	01/07/25 23:45	1
o-Terphenyl	74		70 - 130	01/07/25 09:48	01/07/25 23:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		10.0		mg/Kg			01/07/25 20:50	1

Client Sample ID: HA-13

Lab Sample ID: 890-7533-2

Date Collected: 01/03/25 13:05

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 17:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 08:58	01/07/25 17:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 08:58	01/07/25 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/07/25 08:58	01/07/25 17:16	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

Client Sample ID: HA-13

Lab Sample ID: 890-7533-2

Date Collected: 01/03/25 13:05

Matrix: Solid

Date Received: 01/03/25 14:37

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130	01/07/25 08:58	01/07/25 17:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 17:16	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			01/07/25 23:59	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		01/07/25 09:48	01/07/25 23:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/07/25 09:48	01/07/25 23:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:48	01/07/25 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/07/25 09:48	01/07/25 23:59	1
o-Terphenyl	76		70 - 130	01/07/25 09:48	01/07/25 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112	F1	9.94		mg/Kg			01/07/25 20:55	1

Eurofins Carlsbad

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
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)
890-7533-1	HA-13	120	104
890-7533-2	HA-13	123	118
LCS 880-99630/1-A	Lab Control Sample	113	102
LCS 880-99645/1-A	Lab Control Sample	110	104
LCSD 880-99630/2-A	Lab Control Sample Dup	115	102
LCSD 880-99645/2-A	Lab Control Sample Dup	108	98
MB 880-99630/5-A	Method Blank	109	102
MB 880-99645/5-A	Method Blank	203 S1+	124

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)
890-7533-1	HA-13	78	74
890-7533-2	HA-13	80	76
LCS 880-99661/2-A	Lab Control Sample	155 S1+	147 S1+
LCSD 880-99661/3-A	Lab Control Sample Dup	164 S1+	155 S1+
MB 880-99661/1-A	Method Blank	112	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99630/5-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:40	01/07/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:40	01/07/25 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/07/25 08:40	01/07/25 11:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/07/25 08:40	01/07/25 11:14	1

Lab Sample ID: LCS 880-99630/1-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.1022		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2079		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-99630/2-A

Matrix: Solid

Analysis Batch: 99626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130	5	35
o-Xylene	0.100	0.1129		mg/Kg		113	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-99645/5-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99645/5-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:58	01/07/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:58	01/07/25 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130	01/07/25 08:58	01/07/25 11:33	1
1,4-Difluorobenzene (Surr)	124		70 - 130	01/07/25 08:58	01/07/25 11:33	1

Lab Sample ID: LCS 880-99645/1-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1130		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2394		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1133		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-99645/2-A

Matrix: Solid

Analysis Batch: 99624

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1029		mg/Kg		103	70 - 130	5	35
Toluene	0.100	0.09926		mg/Kg		99	70 - 130	13	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	8	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-99661/1-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99661

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		01/07/25 09:48	01/07/25 18:47	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-99661/1-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99661

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		01/07/25 09:48	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				01/07/25 09:48	01/07/25 18:47	1
o-Terphenyl	114		70 - 130				01/07/25 09:48	01/07/25 18:47	1

Lab Sample ID: LCS 880-99661/2-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1360	*+	mg/Kg		136	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1425	*+	mg/Kg		143	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	155	S1+	70 - 130						
o-Terphenyl	147	S1+	70 - 130						

Lab Sample ID: LCSD 880-99661/3-A

Matrix: Solid

Analysis Batch: 99653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1412	*+	mg/Kg		141	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1450	*+	mg/Kg		145	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	164	S1+	70 - 130						
o-Terphenyl	155	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99687/1-A

Matrix: Solid

Analysis Batch: 99696

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			01/07/25 19:19	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99687/2-A

Matrix: Solid

Analysis Batch: 99696

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-99687/3-A

Matrix: Solid

Analysis Batch: 99696

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	268.9		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7533-2 MS

Matrix: Solid

Analysis Batch: 99696

Client Sample ID: HA-13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	112	F1	249	395.5	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-7533-2 MSD

Matrix: Solid

Analysis Batch: 99696

Client Sample ID: HA-13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	112	F1	249	395.6	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 99624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-2	HA-13	Total/NA	Solid	8021B	99645
MB 880-99645/5-A	Method Blank	Total/NA	Solid	8021B	99645
LCS 880-99645/1-A	Lab Control Sample	Total/NA	Solid	8021B	99645
LCSD 880-99645/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99645

Analysis Batch: 99626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Total/NA	Solid	8021B	99630
MB 880-99630/5-A	Method Blank	Total/NA	Solid	8021B	99630
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	8021B	99630
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99630

Prep Batch: 99630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Total/NA	Solid	5035	
MB 880-99630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 99645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-2	HA-13	Total/NA	Solid	5035	
MB 880-99645/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99645/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99645/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Total/NA	Solid	Total BTEX	
890-7533-2	HA-13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Total/NA	Solid	8015B NM	99661
890-7533-2	HA-13	Total/NA	Solid	8015B NM	99661
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015B NM	99661
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99661
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99661

Prep Batch: 99661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Total/NA	Solid	8015NM Prep	
890-7533-2	HA-13	Total/NA	Solid	8015NM Prep	
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99661/3-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: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 99768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Total/NA	Solid	8015 NM	
890-7533-2	HA-13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Soluble	Solid	DI Leach	
890-7533-2	HA-13	Soluble	Solid	DI Leach	
MB 880-99687/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7533-2 MS	HA-13	Soluble	Solid	DI Leach	
890-7533-2 MSD	HA-13	Soluble	Solid	DI Leach	

Analysis Batch: 99696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7533-1	HA-13	Soluble	Solid	300.0	99687
890-7533-2	HA-13	Soluble	Solid	300.0	99687
MB 880-99687/1-A	Method Blank	Soluble	Solid	300.0	99687
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	300.0	99687
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99687
890-7533-2 MS	HA-13	Soluble	Solid	300.0	99687
890-7533-2 MSD	HA-13	Soluble	Solid	300.0	99687

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

Client Sample ID: HA-13**Date Collected: 01/03/25 13:00****Date Received: 01/03/25 14:37****Lab Sample ID: 890-7533-1****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99630	01/07/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99626	01/07/25 16:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99730	01/07/25 16:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99768	01/07/25 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 23:45	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:50	CH	EET MID

Client Sample ID: HA-13**Date Collected: 01/03/25 13:05****Date Received: 01/03/25 14:37****Lab Sample ID: 890-7533-2****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	99645	01/07/25 08:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99624	01/07/25 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99730	01/07/25 17:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99768	01/07/25 23:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 23:59	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:55	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: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7533-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7533-1	HA-13	Solid	01/03/25 13:00	01/03/25 14:37	0.5
890-7533-2	HA-13	Solid	01/03/25 13:05	01/03/25 14:37	1

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



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) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 980-3199

Work Order No:

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Project Manager	Gilbert Moreno	Bill to (if different)	Jim Raley
Company Name	Earth Systems R&R	Company Name	WPX Energy Permian
Address	1910 Resource Ct	Address	
City, State ZIP	Carlsbad, NM, 88320	City, State ZIP	
Phone	832-541-7719	Email	jmoreno@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: EDO ☐ ADAPT ☐ Other:

[illegible]

890-7533 Chain of Custody



Preservative Codes	
None: NO	DI Water: H ₂ O
Cool: Cool	MeOH: Me
HCL: HC	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	

Sample Comments

Incident Number
NAPP2434144241

Total	200.7 / 6010	200.8 / 6020:
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[illegible]

Hg: 1631 / 245.1 / 7470 / 747

Nonetheless, the purchase and reimbursement of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. Issuance, standard, terms, and conditions of service Eurofins Xeno will be made only for the cost of samples and shall not assume any responsibility for any losses, damages, or injuries by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A maximum charge of \$5.00 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.

Reinquished by (Signature)

Received by: (Signature)

Date/Time

Relinquished by (signature)

Received by: (original name)

100

Revised Date: 06/25/2020 Rev: 2020.2

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7533-1

SDG Number: Eddy County, NM

Login Number: 7533

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: 890-7533-1

SDG Number: Eddy County, NM

Login Number: 7533

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 01/07/25 08:15 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 4/11/2025 4:04:19 PM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy, NM

JOB NUMBER

890-7917-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



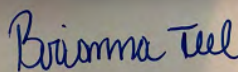
Eurofins Carlsbad

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
4/11/2025 4:04:19 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: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7917-1
SDG: Eddy, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1

Job ID: 890-7917-1

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Job Narrative 890-7917-1

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 4/7/2025 3:40 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 1.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7917-1), CS-2 (890-7917-2), CS-3 (890-7917-3), CS-4 (890-7917-4), CS-5 (890-7917-5), CS-6 (890-7917-6), CS-7 (890-7917-7), CS-8 (890-7917-8), CS-9 (890-7917-9), CS-10 (890-7917-10), CS-11 (890-7917-11), CS-12 (890-7917-12), CS-13 (890-7917-13), CS-14 (890-7917-14) and CS-15 (890-7917-15).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107087 and analytical batch 880-107080 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: The surrogate recovery for the blank associated with preparation batch 880-107087 and analytical batch 880-107080 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-4 (890-7917-4). 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: The laboratory control sample (LCS) associated with preparation batch 880-107066 and analytical batch 880-107099 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-3 (890-7917-3), (LCS 880-107066/2-A), (LCSD 880-107066/3-A) and (890-7915-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107111/2-A) and (LCSD 880-107111/3-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.

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7917-1

Date Collected: 04/07/25 08:00

Matrix: Solid

Date Received: 04/07/25 15:40

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 F2 F1	0.00200		mg/Kg		04/08/25 08:55	04/08/25 13:20	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		04/08/25 08:55	04/08/25 13:20	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		04/08/25 08:55	04/08/25 13:20	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399		mg/Kg		04/08/25 08:55	04/08/25 13:20	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		04/08/25 08:55	04/08/25 13:20	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		04/08/25 08:55	04/08/25 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	04/08/25 08:55	04/08/25 13:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/08/25 08:55	04/08/25 13:20	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			04/08/25 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/08/25 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/08/25 07:51	04/08/25 16:46	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/08/25 07:51	04/08/25 16:46	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/08/25 07:51	04/08/25 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/08/25 07:51	04/08/25 16:46	1
o-Terphenyl	90		70 - 130	04/08/25 07:51	04/08/25 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		9.98		mg/Kg			04/08/25 13:38	1

Client Sample ID: CS-2

Lab Sample ID: 890-7917-2

Date Collected: 04/07/25 08:05

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 13:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 13:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 13:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 13:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 13:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/08/25 08:55	04/08/25 13:40	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-2

Lab Sample ID: 890-7917-2

Date Collected: 04/07/25 08:05

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	04/08/25 08:55	04/08/25 13:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 13:40	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			04/08/25 16:56	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		04/08/25 07:56	04/08/25 16:56	1
Diesel Range Organics (Over C10-C28)	<50.5	U *+	50.5		mg/Kg		04/08/25 07:56	04/08/25 16:56	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/08/25 07:56	04/08/25 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				04/08/25 07:56	04/08/25 16:56	1
o-Terphenyl	125		70 - 130				04/08/25 07:56	04/08/25 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.7		9.96		mg/Kg			04/08/25 13:55	1

Client Sample ID: CS-3

Lab Sample ID: 890-7917-3

Date Collected: 04/07/25 08:10

Matrix: Solid

Date Received: 04/07/25 15:40

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		04/08/25 08:55	04/08/25 14:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 14:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 14:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 14:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/08/25 08:55	04/08/25 14:00	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/08/25 08:55	04/08/25 14:00	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			04/08/25 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.5		50.2		mg/Kg			04/08/25 17:11	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-3

Lab Sample ID: 890-7917-3

Date Collected: 04/07/25 08:10

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 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	<50.2	U	50.2		mg/Kg		04/08/25 07:56	04/08/25 17:11	1
Diesel Range Organics (Over C10-C28)	97.5	*+	50.2		mg/Kg		04/08/25 07:56	04/08/25 17:11	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/08/25 07:56	04/08/25 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				04/08/25 07:56	04/08/25 17:11	1
o-Terphenyl	139	S1+	70 - 130				04/08/25 07:56	04/08/25 17:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		9.92		mg/Kg			04/08/25 14:01	1

Client Sample ID: CS-4

Lab Sample ID: 890-7917-4

Date Collected: 04/07/25 08:15

Matrix: Solid

Date Received: 04/07/25 15:40

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		04/08/25 08:55	04/08/25 14:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 14:21	1
Ethylbenzene	0.00261		0.00200		mg/Kg		04/08/25 08:55	04/08/25 14:21	1
m-Xylene & p-Xylene	0.0104		0.00399		mg/Kg		04/08/25 08:55	04/08/25 14:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 14:21	1
Xylenes, Total	0.0104		0.00399		mg/Kg		04/08/25 08:55	04/08/25 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	397	S1+	70 - 130				04/08/25 08:55	04/08/25 14:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/08/25 08:55	04/08/25 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0130		0.00399		mg/Kg			04/08/25 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	290		49.8		mg/Kg			04/11/25 05:31	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		04/08/25 10:40	04/11/25 05:31	1
Diesel Range Organics (Over C10-C28)	290		49.8		mg/Kg		04/08/25 10:40	04/11/25 05:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/08/25 10:40	04/11/25 05:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/08/25 10:40	04/11/25 05:31	1
o-Terphenyl	127		70 - 130				04/08/25 10:40	04/11/25 05:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7917-4

Date Collected: 04/07/25 08:15

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		10.1		mg/Kg			04/08/25 14:07	1

Client Sample ID: CS-5

Lab Sample ID: 890-7917-5

Date Collected: 04/07/25 08:20

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 14:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 14:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 14:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 14:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 14:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/08/25 08:55	04/08/25 14:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/08/25 08:55	04/08/25 14:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 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	<49.9	U	49.9		mg/Kg			04/11/25 05:47	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		04/08/25 10:40	04/11/25 05:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/08/25 10:40	04/11/25 05:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/08/25 10:40	04/11/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/08/25 10:40	04/11/25 05:47	1
o-Terphenyl	111		70 - 130				04/08/25 10:40	04/11/25 05:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		10.0		mg/Kg			04/08/25 14:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-6

Lab Sample ID: 890-7917-6

Date Collected: 04/07/25 08:25

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 2

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		04/08/25 08:55	04/08/25 15:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/08/25 08:55	04/08/25 15:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/08/25 08:55	04/08/25 15:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/08/25 08:55	04/08/25 15:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/08/25 08:55	04/08/25 15:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/08/25 08:55	04/08/25 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/08/25 08:55	04/08/25 15:02	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/08/25 08:55	04/08/25 15:02	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			04/08/25 15:02	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			04/11/25 06:19	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		04/08/25 10:40	04/11/25 06:19	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/08/25 10:40	04/11/25 06:19	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/08/25 10:40	04/11/25 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	04/08/25 10:40	04/11/25 06:19	1
o-Terphenyl	125		70 - 130	04/08/25 10:40	04/11/25 06:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		9.98		mg/Kg			04/08/25 14:18	1

Client Sample ID: CS-7

Lab Sample ID: 890-7917-7

Date Collected: 04/07/25 08:30

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 15:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 15:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 15:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 15:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 15:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	04/08/25 08:55	04/08/25 15:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7917-7

Date Collected: 04/07/25 08:30

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	04/08/25 08:55	04/08/25 15:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 15:22	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			04/11/25 06:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 06:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 06:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 06:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/08/25 10:40	04/11/25 06:36	1
o-Terphenyl	110		70 - 130				04/08/25 10:40	04/11/25 06:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		9.96		mg/Kg			04/08/25 14:24	1

Client Sample ID: CS-8

Lab Sample ID: 890-7917-8

Date Collected: 04/07/25 08:35

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1.5

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		04/08/25 08:55	04/08/25 15:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 15:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 15:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 15:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 15:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				04/08/25 08:55	04/08/25 15:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/08/25 08:55	04/08/25 15:42	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			04/08/25 15:42	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			04/11/25 06:52	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-8

Lab Sample ID: 890-7917-8

Date Collected: 04/07/25 08:35

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1.5

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	<50.0	U	50.0		mg/Kg		04/08/25 10:40	04/11/25 06:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/25 10:40	04/11/25 06:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/25 10:40	04/11/25 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/08/25 10:40	04/11/25 06:52	1
o-Terphenyl	105		70 - 130				04/08/25 10:40	04/11/25 06:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		9.94		mg/Kg			04/08/25 14:41	1

Client Sample ID: CS-9

Lab Sample ID: 890-7917-9

Date Collected: 04/07/25 08:40

Matrix: Solid

Date Received: 04/07/25 15:40

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		04/08/25 08:55	04/08/25 16:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 16:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 16:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/08/25 08:55	04/08/25 16:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 16:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/08/25 08:55	04/08/25 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				04/08/25 08:55	04/08/25 16:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/08/25 08:55	04/08/25 16:03	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			04/08/25 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/11/25 07:08	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		04/08/25 10:40	04/11/25 07:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/08/25 10:40	04/11/25 07:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/08/25 10:40	04/11/25 07:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/08/25 10:40	04/11/25 07:08	1
o-Terphenyl	97		70 - 130				04/08/25 10:40	04/11/25 07:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-9

Lab Sample ID: 890-7917-9

Date Collected: 04/07/25 08:40

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		9.96		mg/Kg			04/08/25 14:47	1

Client Sample ID: CS-10

Lab Sample ID: 890-7917-10

Date Collected: 04/07/25 08:45

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 16:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 16:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 16:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 16:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 16:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				04/08/25 08:55	04/08/25 16:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/08/25 08:55	04/08/25 16:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			04/11/25 07:24	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	<50.2	U	50.2		mg/Kg		04/08/25 10:40	04/11/25 07:24	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/08/25 10:40	04/11/25 07:24	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/08/25 10:40	04/11/25 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/08/25 10:40	04/11/25 07:24	1
o-Terphenyl	99		70 - 130				04/08/25 10:40	04/11/25 07:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		9.90		mg/Kg			04/08/25 15:04	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-11

Lab Sample ID: 890-7917-11

Date Collected: 04/07/25 08:50

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 2

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		04/08/25 08:55	04/08/25 18:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 18:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 18:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 18:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 18:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	04/08/25 08:55	04/08/25 18:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/08/25 08:55	04/08/25 18:13	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			04/08/25 18:13	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			04/11/25 07:40	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	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 07:40	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 07:40	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/08/25 10:40	04/11/25 07:40	1
o-Terphenyl	96		70 - 130	04/08/25 10:40	04/11/25 07:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		10.0		mg/Kg			04/08/25 15:10	1

Client Sample ID: CS-12

Lab Sample ID: 890-7917-12

Date Collected: 04/07/25 08:55

Matrix: Solid

Date Received: 04/07/25 15:40

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		04/08/25 08:55	04/08/25 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 18:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/08/25 08:55	04/08/25 18:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 18:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/08/25 08:55	04/08/25 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/08/25 08:55	04/08/25 18:34	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-12

Lab Sample ID: 890-7917-12

Date Collected: 04/07/25 08:55

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/08/25 08:55	04/08/25 18:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/08/25 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/11/25 07:57	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		04/08/25 10:40	04/11/25 07:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/08/25 10:40	04/11/25 07:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/08/25 10:40	04/11/25 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/08/25 10:40	04/11/25 07:57	1
o-Terphenyl	99		70 - 130				04/08/25 10:40	04/11/25 07:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		9.98		mg/Kg			04/08/25 15:16	1

Client Sample ID: CS-13

Lab Sample ID: 890-7917-13

Date Collected: 04/07/25 09:00

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 18:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 18:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 18:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 08:55	04/08/25 18:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 08:55	04/08/25 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/08/25 08:55	04/08/25 18:54	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/08/25 08:55	04/08/25 18:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 18:54	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			04/11/25 08:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-13

Lab Sample ID: 890-7917-13

Date Collected: 04/07/25 09:00

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 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	50.3		mg/Kg		04/08/25 10:40	04/11/25 08:13	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/08/25 10:40	04/11/25 08:13	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/08/25 10:40	04/11/25 08:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/08/25 10:40	04/11/25 08:13	1
o-Terphenyl	108		70 - 130				04/08/25 10:40	04/11/25 08:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		10.1		mg/Kg			04/08/25 15:22	1

Client Sample ID: CS-14

Lab Sample ID: 890-7917-14

Date Collected: 04/07/25 09:05

Matrix: Solid

Date Received: 04/07/25 15:40

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		04/08/25 08:55	04/08/25 19:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/08/25 08:55	04/08/25 19:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/08/25 08:55	04/08/25 19:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/08/25 08:55	04/08/25 19:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/08/25 08:55	04/08/25 19:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/08/25 08:55	04/08/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/08/25 08:55	04/08/25 19:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/08/25 08:55	04/08/25 19:15	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			04/08/25 19:15	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			04/11/25 08:29	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	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 08:29	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 08:29	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/08/25 10:40	04/11/25 08:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/08/25 10:40	04/11/25 08:29	1
o-Terphenyl	100		70 - 130				04/08/25 10:40	04/11/25 08:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-14

Lab Sample ID: 890-7917-14

Date Collected: 04/07/25 09:05

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.1		mg/Kg			04/08/25 15:27	1

Client Sample ID: CS-15

Lab Sample ID: 890-7917-15

Date Collected: 04/07/25 09:10

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 2

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		04/08/25 08:55	04/08/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/08/25 08:55	04/08/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/08/25 08:55	04/08/25 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				04/08/25 08:55	04/08/25 19:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/08/25 08:55	04/08/25 19:35	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			04/08/25 19:35	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			04/11/25 08:44	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	<50.3	U	50.3		mg/Kg		04/08/25 10:40	04/11/25 08:44	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/08/25 10:40	04/11/25 08:44	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/08/25 10:40	04/11/25 08:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/08/25 10:40	04/11/25 08:44	1
o-Terphenyl	98		70 - 130				04/08/25 10:40	04/11/25 08:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		9.94		mg/Kg			04/08/25 15:33	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
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)
890-7917-1	CS-1	89	98
890-7917-1 MS	CS-1	99	95
890-7917-1 MSD	CS-1	102	96
890-7917-2	CS-2	96	107
890-7917-3	CS-3	110	109
890-7917-4	CS-4	397 S1+	96
890-7917-5	CS-5	98	103
890-7917-6	CS-6	103	102
890-7917-7	CS-7	121	107
890-7917-8	CS-8	123	104
890-7917-9	CS-9	117	99
890-7917-10	CS-10	117	103
890-7917-11	CS-11	90	96
890-7917-12	CS-12	105	101
890-7917-13	CS-13	118	109
890-7917-14	CS-14	106	102
890-7917-15	CS-15	120	99
LCS 880-107087/1-A	Lab Control Sample	109	95
LCSD 880-107087/2-A	Lab Control Sample Dup	92	108
MB 880-107087/5-A	Method Blank	210 S1+	131 S1+
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)
890-7917-1	CS-1	104	90
890-7917-2	CS-2	123	125
890-7917-3	CS-3	133 S1+	139 S1+
890-7917-4	CS-4	125	127
890-7917-5	CS-5	113	111
890-7917-6	CS-6	128	125
890-7917-7	CS-7	117	110
890-7917-8	CS-8	108	105
890-7917-9	CS-9	103	97
890-7917-10	CS-10	103	99
890-7917-11	CS-11	100	96
890-7917-12	CS-12	103	99
890-7917-13	CS-13	110	108
890-7917-14	CS-14	106	100
890-7917-15	CS-15	100	98
LCS 880-107064/2-A	Lab Control Sample	98	110
LCS 880-107066/2-A	Lab Control Sample	169 S1+	165 S1+
LCS 880-107111/2-A	Lab Control Sample	151 S1+	140 S1+
LCSD 880-107064/3-A	Lab Control Sample Dup	97	109

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, 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)
LCSD 880-107066/3-A	Lab Control Sample Dup	168 S1+	165 S1+
LCSD 880-107111/3-A	Lab Control Sample Dup	152 S1+	142 S1+
MB 880-107064/1-A	Method Blank	119	121
MB 880-107066/1-A	Method Blank	115	124
MB 880-107111/1-A	Method Blank	111	116
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107087/5-A

Matrix: Solid

Analysis Batch: 107080

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/08/25 08:55	04/08/25 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 08:55	04/08/25 12:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/08/25 08:55	04/08/25 12:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	210	S1+	70 - 130	04/08/25 08:55	04/08/25 12:51	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	04/08/25 08:55	04/08/25 12:51	1

Lab Sample ID: LCS 880-107087/1-A

Matrix: Solid

Analysis Batch: 107080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1140		mg/Kg		114	70 - 130
Toluene	0.100	0.1075		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2022		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-107087/2-A

Matrix: Solid

Analysis Batch: 107080

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107087

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1157		mg/Kg		116	70 - 130	1	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	5	35
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130	10	35
o-Xylene	0.100	0.1004		mg/Kg		100	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-7917-1 MS

Matrix: Solid

Analysis Batch: 107080

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 107087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F2 F1	0.100	0.06752	F1	mg/Kg		68	70 - 130
Toluene	<0.00200	U F2 F1	0.100	0.06485	F1	mg/Kg		65	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

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

Lab Sample ID: 890-7917-1 MS

Matrix: Solid

Analysis Batch: 107080

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 107087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.100	0.06790	F1	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.1389	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00200	U F2 F1	0.100	0.06792	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-7917-1 MSD

Matrix: Solid

Analysis Batch: 107080

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 107087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.100	0.1096	F2	mg/Kg		110	70 - 130	48	35
Toluene	<0.00200	U F2 F1	0.100	0.1052	F2	mg/Kg		105	70 - 130	47	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.1110	F2	mg/Kg		111	70 - 130	48	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.2300	F2	mg/Kg		115	70 - 130	49	35
o-Xylene	<0.00200	U F2 F1	0.100	0.1083	F2	mg/Kg		108	70 - 130	46	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-107064/1-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107064

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		04/08/25 07:51	04/08/25 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/25 07:51	04/08/25 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/25 07:51	04/08/25 01:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	04/08/25 07:51	04/08/25 01:31	1
o-Terphenyl	121		70 - 130	04/08/25 07:51	04/08/25 01:31	1

Lab Sample ID: LCS 880-107064/2-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	850.5		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	927.1		mg/Kg		93	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

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

Lab Sample ID: LCS 880-107064/2-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107064

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-107064/3-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107064

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	841.4		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	921.5		mg/Kg		92	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: MB 880-107066/1-A

Matrix: Solid

Analysis Batch: 107099

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107066

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		04/08/25 07:56	04/08/25 03:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/25 07:56	04/08/25 03:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/25 07:56	04/08/25 03:06	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				04/08/25 07:56	04/08/25 03:06	1
o-Terphenyl	124		70 - 130				04/08/25 07:56	04/08/25 03:06	1

Lab Sample ID: LCS 880-107066/2-A

Matrix: Solid

Analysis Batch: 107099

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1275		mg/Kg		128	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1359	*+	mg/Kg		136	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	169	S1+	70 - 130
o-Terphenyl	165	S1+	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

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

Lab Sample ID: LCSD 880-107066/3-A

Matrix: Solid

Analysis Batch: 107099

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1264		mg/Kg		126	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1367	*+	mg/Kg		137	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	168	S1+	70 - 130						
o-Terphenyl	165	S1+	70 - 130						

Lab Sample ID: MB 880-107111/1-A

Matrix: Solid

Analysis Batch: 107306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107111

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		04/08/25 10:40	04/11/25 02:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/25 10:40	04/11/25 02:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/25 10:40	04/11/25 02:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	111		70 - 130	04/08/25 10:40	04/11/25 02:00	1			
o-Terphenyl	116		70 - 130	04/08/25 10:40	04/11/25 02:00	1			

Lab Sample ID: LCS 880-107111/2-A

Matrix: Solid

Analysis Batch: 107306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107111

Analyte			Spike	LCS	LCS	Unit	D	%Rec		
			Added	Result	Qualifier			%Rec		
Gasoline Range Organics (GRO)-C6-C10			1000	1029		mg/Kg		103	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1133		mg/Kg		113	70 - 130	

Lab Sample ID: LCSD 880-107111/3-A

Matrix: Solid

Analysis Batch: 107306

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1080		mg/Kg		108	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1124		mg/Kg		112	70 - 130	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

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

Lab Sample ID: LCSD 880-107111/3-A

Matrix: Solid

Analysis Batch: 107306

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107111

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	152	S1+	70 - 130
o-Terphenyl	142	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107077/1-A

Matrix: Solid

Analysis Batch: 107109

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			04/08/25 12:46		1

Lab Sample ID: LCS 880-107077/2-A

Matrix: Solid

Analysis Batch: 107109

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	242.5		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-107077/3-A

Matrix: Solid

Analysis Batch: 107109

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	242.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-7917-7 MS

Matrix: Solid

Analysis Batch: 107109

Client Sample ID: CS-7

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	136		249	389.1		mg/Kg		102	90 - 110	

Lab Sample ID: 890-7917-7 MSD

Matrix: Solid

Analysis Batch: 107109

Client Sample ID: CS-7

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	136		248	387.8		mg/Kg		102	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

GC VOA

Analysis Batch: 107080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Total/NA	Solid	8021B	107087
890-7917-2	CS-2	Total/NA	Solid	8021B	107087
890-7917-3	CS-3	Total/NA	Solid	8021B	107087
890-7917-4	CS-4	Total/NA	Solid	8021B	107087
890-7917-5	CS-5	Total/NA	Solid	8021B	107087
890-7917-6	CS-6	Total/NA	Solid	8021B	107087
890-7917-7	CS-7	Total/NA	Solid	8021B	107087
890-7917-8	CS-8	Total/NA	Solid	8021B	107087
890-7917-9	CS-9	Total/NA	Solid	8021B	107087
890-7917-10	CS-10	Total/NA	Solid	8021B	107087
890-7917-11	CS-11	Total/NA	Solid	8021B	107087
890-7917-12	CS-12	Total/NA	Solid	8021B	107087
890-7917-13	CS-13	Total/NA	Solid	8021B	107087
890-7917-14	CS-14	Total/NA	Solid	8021B	107087
890-7917-15	CS-15	Total/NA	Solid	8021B	107087
MB 880-107087/5-A	Method Blank	Total/NA	Solid	8021B	107087
LCS 880-107087/1-A	Lab Control Sample	Total/NA	Solid	8021B	107087
LCSD 880-107087/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107087
890-7917-1 MS	CS-1	Total/NA	Solid	8021B	107087
890-7917-1 MSD	CS-1	Total/NA	Solid	8021B	107087

Prep Batch: 107087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Total/NA	Solid	5035	
890-7917-2	CS-2	Total/NA	Solid	5035	
890-7917-3	CS-3	Total/NA	Solid	5035	
890-7917-4	CS-4	Total/NA	Solid	5035	
890-7917-5	CS-5	Total/NA	Solid	5035	
890-7917-6	CS-6	Total/NA	Solid	5035	
890-7917-7	CS-7	Total/NA	Solid	5035	
890-7917-8	CS-8	Total/NA	Solid	5035	
890-7917-9	CS-9	Total/NA	Solid	5035	
890-7917-10	CS-10	Total/NA	Solid	5035	
890-7917-11	CS-11	Total/NA	Solid	5035	
890-7917-12	CS-12	Total/NA	Solid	5035	
890-7917-13	CS-13	Total/NA	Solid	5035	
890-7917-14	CS-14	Total/NA	Solid	5035	
890-7917-15	CS-15	Total/NA	Solid	5035	
MB 880-107087/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107087/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107087/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7917-1 MS	CS-1	Total/NA	Solid	5035	
890-7917-1 MSD	CS-1	Total/NA	Solid	5035	

Analysis Batch: 107261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Total/NA	Solid	Total BTEX	
890-7917-2	CS-2	Total/NA	Solid	Total BTEX	
890-7917-3	CS-3	Total/NA	Solid	Total BTEX	
890-7917-4	CS-4	Total/NA	Solid	Total BTEX	
890-7917-5	CS-5	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

GC VOA (Continued)

Analysis Batch: 107261 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-6	CS-6	Total/NA	Solid	Total BTEX	
890-7917-7	CS-7	Total/NA	Solid	Total BTEX	
890-7917-8	CS-8	Total/NA	Solid	Total BTEX	
890-7917-9	CS-9	Total/NA	Solid	Total BTEX	
890-7917-10	CS-10	Total/NA	Solid	Total BTEX	
890-7917-11	CS-11	Total/NA	Solid	Total BTEX	
890-7917-12	CS-12	Total/NA	Solid	Total BTEX	
890-7917-13	CS-13	Total/NA	Solid	Total BTEX	
890-7917-14	CS-14	Total/NA	Solid	Total BTEX	
890-7917-15	CS-15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Total/NA	Solid	8015NM Prep	
MB 880-107064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 107066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-2	CS-2	Total/NA	Solid	8015NM Prep	
890-7917-3	CS-3	Total/NA	Solid	8015NM Prep	
MB 880-107066/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107066/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107066/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Total/NA	Solid	8015B NM	107064
MB 880-107064/1-A	Method Blank	Total/NA	Solid	8015B NM	107064
LCS 880-107064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107064
LCSD 880-107064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107064

Analysis Batch: 107099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-2	CS-2	Total/NA	Solid	8015B NM	107066
890-7917-3	CS-3	Total/NA	Solid	8015B NM	107066
MB 880-107066/1-A	Method Blank	Total/NA	Solid	8015B NM	107066
LCS 880-107066/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107066
LCSD 880-107066/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107066

Prep Batch: 107111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-4	CS-4	Total/NA	Solid	8015NM Prep	
890-7917-5	CS-5	Total/NA	Solid	8015NM Prep	
890-7917-6	CS-6	Total/NA	Solid	8015NM Prep	
890-7917-7	CS-7	Total/NA	Solid	8015NM Prep	
890-7917-8	CS-8	Total/NA	Solid	8015NM Prep	
890-7917-9	CS-9	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

GC Semi VOA (Continued)

Prep Batch: 107111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-10	CS-10	Total/NA	Solid	8015NM Prep	
890-7917-11	CS-11	Total/NA	Solid	8015NM Prep	
890-7917-12	CS-12	Total/NA	Solid	8015NM Prep	
890-7917-13	CS-13	Total/NA	Solid	8015NM Prep	
890-7917-14	CS-14	Total/NA	Solid	8015NM Prep	
890-7917-15	CS-15	Total/NA	Solid	8015NM Prep	
MB 880-107111/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107111/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107111/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Total/NA	Solid	8015 NM	
890-7917-2	CS-2	Total/NA	Solid	8015 NM	
890-7917-3	CS-3	Total/NA	Solid	8015 NM	
890-7917-4	CS-4	Total/NA	Solid	8015 NM	
890-7917-5	CS-5	Total/NA	Solid	8015 NM	
890-7917-6	CS-6	Total/NA	Solid	8015 NM	
890-7917-7	CS-7	Total/NA	Solid	8015 NM	
890-7917-8	CS-8	Total/NA	Solid	8015 NM	
890-7917-9	CS-9	Total/NA	Solid	8015 NM	
890-7917-10	CS-10	Total/NA	Solid	8015 NM	
890-7917-11	CS-11	Total/NA	Solid	8015 NM	
890-7917-12	CS-12	Total/NA	Solid	8015 NM	
890-7917-13	CS-13	Total/NA	Solid	8015 NM	
890-7917-14	CS-14	Total/NA	Solid	8015 NM	
890-7917-15	CS-15	Total/NA	Solid	8015 NM	

Analysis Batch: 107306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-4	CS-4	Total/NA	Solid	8015B NM	107111
890-7917-5	CS-5	Total/NA	Solid	8015B NM	107111
890-7917-6	CS-6	Total/NA	Solid	8015B NM	107111
890-7917-7	CS-7	Total/NA	Solid	8015B NM	107111
890-7917-8	CS-8	Total/NA	Solid	8015B NM	107111
890-7917-9	CS-9	Total/NA	Solid	8015B NM	107111
890-7917-10	CS-10	Total/NA	Solid	8015B NM	107111
890-7917-11	CS-11	Total/NA	Solid	8015B NM	107111
890-7917-12	CS-12	Total/NA	Solid	8015B NM	107111
890-7917-13	CS-13	Total/NA	Solid	8015B NM	107111
890-7917-14	CS-14	Total/NA	Solid	8015B NM	107111
890-7917-15	CS-15	Total/NA	Solid	8015B NM	107111
MB 880-107111/1-A	Method Blank	Total/NA	Solid	8015B NM	107111
LCS 880-107111/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107111
LCSD 880-107111/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107111

HPLC/IC

Leach Batch: 107077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

HPLC/IC (Continued)

Leach Batch: 107077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-2	CS-2	Soluble	Solid	DI Leach	
890-7917-3	CS-3	Soluble	Solid	DI Leach	
890-7917-4	CS-4	Soluble	Solid	DI Leach	
890-7917-5	CS-5	Soluble	Solid	DI Leach	
890-7917-6	CS-6	Soluble	Solid	DI Leach	
890-7917-7	CS-7	Soluble	Solid	DI Leach	
890-7917-8	CS-8	Soluble	Solid	DI Leach	
890-7917-9	CS-9	Soluble	Solid	DI Leach	
890-7917-10	CS-10	Soluble	Solid	DI Leach	
890-7917-11	CS-11	Soluble	Solid	DI Leach	
890-7917-12	CS-12	Soluble	Solid	DI Leach	
890-7917-13	CS-13	Soluble	Solid	DI Leach	
890-7917-14	CS-14	Soluble	Solid	DI Leach	
890-7917-15	CS-15	Soluble	Solid	DI Leach	
MB 880-107077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7917-7 MS	CS-7	Soluble	Solid	DI Leach	
890-7917-7 MSD	CS-7	Soluble	Solid	DI Leach	

Analysis Batch: 107109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7917-1	CS-1	Soluble	Solid	300.0	107077
890-7917-2	CS-2	Soluble	Solid	300.0	107077
890-7917-3	CS-3	Soluble	Solid	300.0	107077
890-7917-4	CS-4	Soluble	Solid	300.0	107077
890-7917-5	CS-5	Soluble	Solid	300.0	107077
890-7917-6	CS-6	Soluble	Solid	300.0	107077
890-7917-7	CS-7	Soluble	Solid	300.0	107077
890-7917-8	CS-8	Soluble	Solid	300.0	107077
890-7917-9	CS-9	Soluble	Solid	300.0	107077
890-7917-10	CS-10	Soluble	Solid	300.0	107077
890-7917-11	CS-11	Soluble	Solid	300.0	107077
890-7917-12	CS-12	Soluble	Solid	300.0	107077
890-7917-13	CS-13	Soluble	Solid	300.0	107077
890-7917-14	CS-14	Soluble	Solid	300.0	107077
890-7917-15	CS-15	Soluble	Solid	300.0	107077
MB 880-107077/1-A	Method Blank	Soluble	Solid	300.0	107077
LCS 880-107077/2-A	Lab Control Sample	Soluble	Solid	300.0	107077
LCSD 880-107077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107077
890-7917-7 MS	CS-7	Soluble	Solid	300.0	107077
890-7917-7 MSD	CS-7	Soluble	Solid	300.0	107077

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-1**Lab Sample ID: 890-7917-1****Date Collected: 04/07/25 08:00****Matrix: Solid****Date Received: 04/07/25 15:40**

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 13:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/08/25 16:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107064	04/08/25 07:51	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107084	04/08/25 16:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 13:38	CH	EET MID

Client Sample ID: CS-2**Lab Sample ID: 890-7917-2****Date Collected: 04/07/25 08:05****Matrix: Solid****Date Received: 04/07/25 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/08/25 16:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	107066	04/08/25 07:56	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107099	04/08/25 16:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 13:55	CH	EET MID

Client Sample ID: CS-3**Lab Sample ID: 890-7917-3****Date Collected: 04/07/25 08:10****Matrix: Solid****Date Received: 04/07/25 15:40**

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 14:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/08/25 17:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	107066	04/08/25 07:56	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107099	04/08/25 17:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:01	CH	EET MID

Client Sample ID: CS-4**Lab Sample ID: 890-7917-4****Date Collected: 04/07/25 08:15****Matrix: Solid****Date Received: 04/07/25 15:40**

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 14:21	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7917-4

Date Collected: 04/07/25 08:15

Matrix: Solid

Date Received: 04/07/25 15:40

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			107245	04/11/25 05:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 05:31	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:07	CH	EET MID

Client Sample ID: CS-5

Lab Sample ID: 890-7917-5

Date Collected: 04/07/25 08:20

Matrix: Solid

Date Received: 04/07/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 14:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 05:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 05:47	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:13	CH	EET MID

Client Sample ID: CS-6

Lab Sample ID: 890-7917-6

Date Collected: 04/07/25 08:25

Matrix: Solid

Date Received: 04/07/25 15:40

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 15:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 06:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 06:19	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:18	CH	EET MID

Client Sample ID: CS-7

Lab Sample ID: 890-7917-7

Date Collected: 04/07/25 08:30

Matrix: Solid

Date Received: 04/07/25 15:40

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 15:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 15:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 06:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 06:36	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7917-7

Date Collected: 04/07/25 08:30

Matrix: Solid

Date Received: 04/07/25 15:40

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	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:24	CH	EET MID

Client Sample ID: CS-8

Lab Sample ID: 890-7917-8

Date Collected: 04/07/25 08:35

Matrix: Solid

Date Received: 04/07/25 15:40

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 15:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 15:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 06:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 06:52	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:41	CH	EET MID

Client Sample ID: CS-9

Lab Sample ID: 890-7917-9

Date Collected: 04/07/25 08:40

Matrix: Solid

Date Received: 04/07/25 15:40

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 16:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 16:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 07:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 07:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 14:47	CH	EET MID

Client Sample ID: CS-10

Lab Sample ID: 890-7917-10

Date Collected: 04/07/25 08:45

Matrix: Solid

Date Received: 04/07/25 15:40

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 16:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 16:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 07:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 07:24	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:04	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-11**Lab Sample ID: 890-7917-11****Date Collected: 04/07/25 08:50****Matrix: Solid****Date Received: 04/07/25 15:40**

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 18:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 18:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 07:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 07:40	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:10	CH	EET MID

Client Sample ID: CS-12**Lab Sample ID: 890-7917-12****Date Collected: 04/07/25 08:55****Matrix: Solid****Date Received: 04/07/25 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 18:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 07:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 07:57	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:16	CH	EET MID

Client Sample ID: CS-13**Lab Sample ID: 890-7917-13****Date Collected: 04/07/25 09:00****Matrix: Solid****Date Received: 04/07/25 15:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 18:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 18:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 08:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 08:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:22	CH	EET MID

Client Sample ID: CS-14**Lab Sample ID: 890-7917-14****Date Collected: 04/07/25 09:05****Matrix: Solid****Date Received: 04/07/25 15:40**

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	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 19:15	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Client Sample ID: CS-14
Date Collected: 04/07/25 09:05
Date Received: 04/07/25 15:40

Lab Sample ID: 890-7917-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			107245	04/11/25 08:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 08:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:27	CH	EET MID

Client Sample ID: CS-15
Date Collected: 04/07/25 09:10
Date Received: 04/07/25 15:40

Lab Sample ID: 890-7917-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	107087	04/08/25 08:55	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107080	04/08/25 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107261	04/08/25 19:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107245	04/11/25 08:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	107111	04/08/25 10:40	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107306	04/11/25 08:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:33	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: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
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

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

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7917-1
SDG: Eddy, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7917-1	CS-1	Solid	04/07/25 08:00	04/07/25 15:40	1
890-7917-2	CS-2	Solid	04/07/25 08:05	04/07/25 15:40	1
890-7917-3	CS-3	Solid	04/07/25 08:10	04/07/25 15:40	1
890-7917-4	CS-4	Solid	04/07/25 08:15	04/07/25 15:40	1
890-7917-5	CS-5	Solid	04/07/25 08:20	04/07/25 15:40	1
890-7917-6	CS-6	Solid	04/07/25 08:25	04/07/25 15:40	2
890-7917-7	CS-7	Solid	04/07/25 08:30	04/07/25 15:40	1
890-7917-8	CS-8	Solid	04/07/25 08:35	04/07/25 15:40	1.5
890-7917-9	CS-9	Solid	04/07/25 08:40	04/07/25 15:40	1
890-7917-10	CS-10	Solid	04/07/25 08:45	04/07/25 15:40	1
890-7917-11	CS-11	Solid	04/07/25 08:50	04/07/25 15:40	2
890-7917-12	CS-12	Solid	04/07/25 08:55	04/07/25 15:40	1
890-7917-13	CS-13	Solid	04/07/25 09:00	04/07/25 15:40	1
890-7917-14	CS-14	Solid	04/07/25 09:05	04/07/25 15:40	1
890-7917-15	CS-15	Solid	04/07/25 09:10	04/07/25 15:40	2



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) 509-3343
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



890-7917 Chain of Custody

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Page

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

ANALYSIS REQUEST										Preservative Codes				
Project Name:	Shaglus 26 St 1 Battery			Turn Around		Pres. Code						None: NO	DI Water: H ₂ O	
Project Number:	VP-18302/ ESRR#2728			☒ Routine	☐ Rush							Coet: Coet	MeQt: Me	
Project Location:	Eddy, NM			Due Date:	5 Day TAT							HCL: HC	HNO ₃ : HN	
Sampler's Name:	Santiago Giron			TAT starts the day received by the lab, if received by 4:30pm								H ₂ SO ₄ : H ₂	NaOH: Na	
POWVO #:												H ₃ PO ₄ : HP		
SAMPLE RECEIPT				Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No	Parameters					NaHSO ₄ : NABIS	
Samples Received Intact:				☒ Yes ☐ No	Thermometer ID:	TAT#007							Na ₂ S ₂ O ₃ : NASO ₃	
Cooler Custody Seals:				☒ Yes ☐ No	Correction Factor:	-0.2							Zn Acetate+NaOH: Zn	
Sample Custody Seals:				☒ Yes ☐ No	Temperature Reading:	1.6							NaOH+Ascorbic Acid: SASC	
Total Containers:					Corrected Temperature:	1.4								

[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	SiO ₂	Na	Sr	TI	Sn	U	V	Zn	
Hg: 163.1 / 245.1 / 747.0 / 747.1																															

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0 <i>[Signature]</i>	<i>[Signature]</i>	15:46 7/7	2		
3			4		
5			6		

Revised Date: 08/25/2020 Baw 2020



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com

Page 2 of 2

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	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:	Shaghtus 26 St 1 Battery		☒ Routine ☐ Rush		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	VP-18302/ESRR#2728		Due Date:	5 Day / 7AT														None: NO	DI Water: H ₂ O	
Project Location:	Eddy, NM		TAT starts the day received by the lab, if received by 4:30pm															Geel: Geel	MeOH: Me	
Sampler's Name:	Santiago Giron																	HCL: HC	HNO ₃ : HN	
POWOW #:			Temp Blank:	Yes No	Wet Ice:	Yes No													H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	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
CS-10	S	4.7.25	8:45	1	Comp	1	X	X	X															Incident Number NAPP2434144241
CS-11	S	4.7.25	8:50	2	Comp	1	X	X	X															
CS-12	S	4.7.25	8:55	1	Comp	1	X	X	X															
CS-13	S	4.7.25	9:00	1	Comp	1	X	X	X															
CS-14	S	4.7.25	9:05	1	Comp	1	X	X	X															
CS-15	S	4.7.25	9:10	2	Comp	1	X	X	X															

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

Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	15:40 4/7			

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):	COC No:																											
Client Contact:						Phone:	N/A	E-Mail:	Brianna.TeeL@eurofinsus.com	State of Origin:	890-4857.1																											
Shipping/Receiving						N/A			Texas		Page 1 of 2																											
Company:						Eurofins Environment Testing South Centr			Accreditations Required (See note)			Job #																										
Address:						1211 W. Florida Ave.			NELAP - Texas			890-7917-1																										
City:						TX, 79701			Analysis Requested			Preservation Codes:																										
Midland																																						
State, Zip						TAT Requested (days):																																
Phone:						PO #:																																
432-704-5440(Tel)						N/A																																
Email:						WFO #:																																
N/A						Project #:																																
Project Name:						SHAQUTUS 26 ST 1 BATTERY																																
Site:						SSOW#:																																
N/A																																						
Sample Identification - Client ID (Lab ID)						Sample Date			Sample Time			Sample Type (G=comp, B=grab) Matrix (w=water, S=solid, O=soil, A=air)			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Total Number of containers			Special Instructions/Note:														
CS-1 (890-7917-1)						4/7/25			08:00			Central			G			Solid			X			X			X			X			1					
CS-2 (890-7917-2)						4/7/25			08:05			Central			G			Solid			X			X			X			X			1					
CS-3 (890-7917-3)						4/7/25			08:10			Central			G			Solid			X			X			X			X			1					
CS-4 (890-7917-4)						4/7/25			08:15			Central			G			Solid			X			X			X			X			1					
CS-5 (890-7917-5)						4/7/25			08:20			Central			G			Solid			X			X			X			X			1					
CS-6 (890-7917-6)						4/7/25			08:25			Central			G			Solid			X			X			X			X			1					
CS-7 (890-7917-7)						4/7/25			08:30			Central			G			Solid			X			X			X			X			1					
CS-8 (890-7917-8)						4/7/25			08:35			Central			G			Solid			X			X			X			X			1					
CS-9 (890-7917-9)						4/7/25			08:40			Central			G			Solid			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/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												☐ 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: Method of Shipment:																										
Relinquished by:												Received by:																										
Relinquished by:												Received by:																										
Relinquished by:												Received by:																										
Custody Seals Intact:												Cooler Temperature(s) °C and Other Remarks:																										
Δ Yes Δ No												30/29 -1 TRS																										

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: 890-4857.2									
Client Contact: N/A		Phone: N/A	E-Mail: Brianna.Teel@eurofins.com	State of Origin: Texas	Page: Page 2 of 2									
Shipping/Receiving		Accreditations Required (See note): NELAP - Texas		Job #: 890-7917-1	Preservation Codes:									
Company: Eurofins Environment Testing South Cent		Due Date Requested: 4/11/2025		Analysis Requested										
Address: 1211 W. Florida Ave.		TAT Requested (days): N/A												
City: Midland														
State, Zip: TX, 79701														
Phone: 432-704-5440(Tel)														
Email: N/A														
Project Name: SHAOJUS 26 ST 1 BATTERY														
Project #: 88001228														
Site: SSONW:														
N/A														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weiride, Solid, Over-sold, ST-Traffic, A-A-J)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total BTEX_GCV	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep 8015 NM	Total Number of containers	Special Instructions/Note:
CS-10 (890-7917-10)	4/7/25	08:45	Central	G	Solid	X	X	X	X				1	
CS-11 (890-7917-11)	4/7/25	08:50	Central	G	Solid	X	X	X	X				1	
CS-12 (890-7917-12)	4/7/25	08:55	Central	G	Solid	X	X	X	X				1	
CS-13 (890-7917-13)	4/7/25	09:00	Central	G	Solid	X	X	X	X				1	
CS-14 (890-7917-14)	4/7/25	09:05	Central	G	Solid	X	X	X	X				1	
CS-15 (890-7917-15)	4/7/25	09:10	Central	G	Solid	X	X	X	X				1	
Note: 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) 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: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:														
Δ Yes Δ No														

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7917-1

SDG Number: Eddy, NM

Login Number: 7917

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: 890-7917-1

SDG Number: Eddy, NM

Login Number: 7917

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 04/08/25 08:53 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	



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 4/10/2025 1:34:31 PM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy, NM

JOB NUMBER

890-7918-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



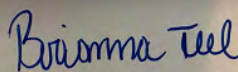
Eurofins Carlsbad

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
4/10/2025 1:34:31 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: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-7918-1
SDG: Eddy, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
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
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
SQL	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: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1

Job ID: 890-7918-1

Eurofins Carlsbad

Job Narrative 890-7918-1

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 4/7/2025 3:40 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 1.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 1 (890-7918-1), SW - 2 (890-7918-2), SW - 3 (890-7918-3) and SW - 4 (890-7918-4).

GC VOA

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

Diesel Range Organics

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: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Client Sample ID: SW - 1

Lab Sample ID: 890-7918-1

Date Collected: 04/07/25 09:15

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 0-2

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		04/08/25 09:12	04/08/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/08/25 09:12	04/08/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/08/25 09:12	04/08/25 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/08/25 09:12	04/08/25 11:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/08/25 09:12	04/08/25 11:46	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			04/08/25 11:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/08/25 16:14	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		04/08/25 07:54	04/08/25 16:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/08/25 07:54	04/08/25 16:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/08/25 07:54	04/08/25 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/08/25 07:54	04/08/25 16:14	1
o-Terphenyl	103		70 - 130	04/08/25 07:54	04/08/25 16:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		9.96		mg/Kg			04/08/25 15:39	1

Client Sample ID: SW - 2

Lab Sample ID: 890-7918-2

Date Collected: 04/07/25 09:20

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:12	04/08/25 12:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:12	04/08/25 12:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:12	04/08/25 12:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 09:12	04/08/25 12:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:12	04/08/25 12:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 09:12	04/08/25 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/08/25 09:12	04/08/25 12:07	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Client Sample ID: SW - 2

Lab Sample ID: 890-7918-2

Date Collected: 04/07/25 09:20

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 0-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	04/08/25 09:12	04/08/25 12:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 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	<50.2	U	50.2		mg/Kg			04/08/25 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/08/25 07:54	04/08/25 16:30	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/08/25 07:54	04/08/25 16:30	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/08/25 07:54	04/08/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				04/08/25 07:54	04/08/25 16:30	1
o-Terphenyl	126		70 - 130				04/08/25 07:54	04/08/25 16:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		9.96		mg/Kg			04/08/25 17:38	1

Client Sample ID: SW - 3

Lab Sample ID: 890-7918-3

Date Collected: 04/07/25 09:25

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 0-2

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		04/08/25 09:07	04/08/25 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 12:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/08/25 09:07	04/08/25 12:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 12:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/08/25 09:07	04/08/25 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/08/25 09:07	04/08/25 12:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/08/25 09:07	04/08/25 12:58	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			04/08/25 12:58	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			04/08/25 16:46	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Client Sample ID: SW - 3

Lab Sample ID: 890-7918-3

Date Collected: 04/07/25 09:25

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/08/25 07:54	04/08/25 16:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/08/25 07:54	04/08/25 16:46	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/08/25 07:54	04/08/25 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/08/25 07:54	04/08/25 16:46	1
o-Terphenyl	118		70 - 130				04/08/25 07:54	04/08/25 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.6		9.98		mg/Kg			04/08/25 17:45	1

Client Sample ID: SW - 4

Lab Sample ID: 890-7918-4

Date Collected: 04/07/25 09:30

Matrix: Solid

Date Received: 04/07/25 15:40

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00265		0.00201		mg/Kg		04/08/25 09:07	04/08/25 13:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:07	04/08/25 13:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:07	04/08/25 13:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/08/25 09:07	04/08/25 13:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/08/25 09:07	04/08/25 13:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/08/25 09:07	04/08/25 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/08/25 09:07	04/08/25 13:19	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/08/25 09:07	04/08/25 13:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/08/25 13:19	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			04/08/25 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/08/25 07:51	04/08/25 16:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/08/25 07:51	04/08/25 16:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/08/25 07:51	04/08/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/08/25 07:51	04/08/25 16:30	1
o-Terphenyl	91		70 - 130				04/08/25 07:51	04/08/25 16:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Client Sample ID: SW - 4
Date Collected: 04/07/25 09:30
Date Received: 04/07/25 15:40
Sample Depth: 0-2

Lab Sample ID: 890-7918-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		9.94		mg/Kg			04/08/25 17:53	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: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
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)
890-7918-1	SW - 1	110	97
890-7918-1 MS	SW - 1	102	103
890-7918-1 MSD	SW - 1	103	101
890-7918-2	SW - 2	101	97
890-7918-3	SW - 3	106	94
890-7918-4	SW - 4	108	90
LCS 880-107091/1-A	Lab Control Sample	93	109
LCS 880-107094/1-A	Lab Control Sample	92	100
LCSD 880-107091/2-A	Lab Control Sample Dup	97	112
LCSD 880-107094/2-A	Lab Control Sample Dup	102	101
MB 880-107091/5-A	Method Blank	103	73
MB 880-107094/5-A	Method Blank	99	92
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)
890-7918-1	SW - 1	109	103
890-7918-2	SW - 2	128	126
890-7918-3	SW - 3	121	118
890-7918-4	SW - 4	95	91
LCS 880-107064/2-A	Lab Control Sample	98	110
LCS 880-107065/2-A	Lab Control Sample	94	103
LCSD 880-107064/3-A	Lab Control Sample Dup	97	109
LCSD 880-107065/3-A	Lab Control Sample Dup	102	111
MB 880-107064/1-A	Method Blank	119	121
MB 880-107065/1-A	Method Blank	120	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107091/5-A

Matrix: Solid

Analysis Batch: 107076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/08/25 09:07	04/08/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:07	04/08/25 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/08/25 09:07	04/08/25 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/08/25 09:07	04/08/25 11:35	1
1,4-Difluorobenzene (Surr)	73		70 - 130	04/08/25 09:07	04/08/25 11:35	1

Lab Sample ID: LCS 880-107091/1-A

Matrix: Solid

Analysis Batch: 107076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1200		mg/Kg		120	70 - 130
Toluene	0.100	0.1095		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1147		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-107091/2-A

Matrix: Solid

Analysis Batch: 107076

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107091

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1092		mg/Kg		109	70 - 130	9	35
Toluene	0.100	0.1021		mg/Kg		102	70 - 130	7	35
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2072		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.09712		mg/Kg		97	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-107094/5-A

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:25	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

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

Lab Sample ID: MB 880-107094/5-A

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/08/25 09:12	04/08/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/25 09:12	04/08/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/08/25 09:12	04/08/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/08/25 09:12	04/08/25 11:25	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/08/25 09:12	04/08/25 11:25	1

Lab Sample ID: LCS 880-107094/1-A

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1054		mg/Kg		105	70 - 130
Toluene	0.100	0.1032		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09839		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09744		mg/Kg		97	70 - 130

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

Lab Sample ID: LCSD 880-107094/2-A

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107094

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1064		mg/Kg		106	70 - 130	1	35
Toluene	0.100	0.1075		mg/Kg		108	70 - 130	4	35
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130	5	35
o-Xylene	0.100	0.1028		mg/Kg		103	70 - 130	5	35

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

Lab Sample ID: 890-7918-1 MS

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: SW - 1

Prep Type: Total/NA

Prep Batch: 107094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130
Toluene	<0.00200	U	0.100	0.1027		mg/Kg		103	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09747		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1938		mg/Kg		97	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

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

Lab Sample ID: 890-7918-1 MS

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: SW - 1

Prep Type: Total/NA

Prep Batch: 107094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00200	U	0.100	0.09664		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 890-7918-1 MSD

Matrix: Solid

Analysis Batch: 107072

Client Sample ID: SW - 1

Prep Type: Total/NA

Prep Batch: 107094

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	0.09961		mg/Kg		100	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.1005		mg/Kg		101	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09685		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1942		mg/Kg		97	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.09727		mg/Kg		97	70 - 130	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Lab Sample ID: MB 880-107064/1-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107064

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		04/08/25 07:51	04/08/25 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/25 07:51	04/08/25 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/25 07:51	04/08/25 01:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	119		70 - 130						
o-Terphenyl	121		70 - 130						

Lab Sample ID: LCS 880-107064/2-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	850.5		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	927.1		mg/Kg		93	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

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

Lab Sample ID: LCS 880-107064/2-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107064

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-107064/3-A

Matrix: Solid

Analysis Batch: 107084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107064

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	841.4		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	921.5		mg/Kg		92	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: MB 880-107065/1-A

Matrix: Solid

Analysis Batch: 107086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107065

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		04/08/25 07:53	04/08/25 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/25 07:53	04/08/25 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/25 07:53	04/08/25 01:31	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	120		70 - 130	04/08/25 07:53	04/08/25 01:31	1
o-Terphenyl	125		70 - 130	04/08/25 07:53	04/08/25 01:31	1

Lab Sample ID: LCS 880-107065/2-A

Matrix: Solid

Analysis Batch: 107086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107065

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	722.2		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	1000	855.6		mg/Kg		86	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	103		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

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

Lab Sample ID: LCSD 880-107065/3-A

Matrix: Solid

Analysis Batch: 107086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	785.9		mg/Kg		79	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	918.2		mg/Kg		92	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	111		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107077/1-A

Matrix: Solid

Analysis Batch: 107109

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			04/08/25 12:46	1

Lab Sample ID: LCS 880-107077/2-A

Matrix: Solid

Analysis Batch: 107109

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	242.5		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-107077/3-A

Matrix: Solid

Analysis Batch: 107109

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	242.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-107079/1-A

Matrix: Solid

Analysis Batch: 107110

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			04/08/25 13:57	1

Lab Sample ID: LCS 880-107079/2-A

Matrix: Solid

Analysis Batch: 107110

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	244.8		mg/Kg		98	90 - 110		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-107079/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 107110											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	243.0		mg/Kg		97	90 - 110	1	20		

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

GC VOA

Analysis Batch: 107072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Total/NA	Solid	8021B	107094
890-7918-2	SW - 2	Total/NA	Solid	8021B	107094
MB 880-107094/5-A	Method Blank	Total/NA	Solid	8021B	107094
LCS 880-107094/1-A	Lab Control Sample	Total/NA	Solid	8021B	107094
LCSD 880-107094/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107094
890-7918-1 MS	SW - 1	Total/NA	Solid	8021B	107094
890-7918-1 MSD	SW - 1	Total/NA	Solid	8021B	107094

Analysis Batch: 107076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-3	SW - 3	Total/NA	Solid	8021B	107091
890-7918-4	SW - 4	Total/NA	Solid	8021B	107091
MB 880-107091/5-A	Method Blank	Total/NA	Solid	8021B	107091
LCS 880-107091/1-A	Lab Control Sample	Total/NA	Solid	8021B	107091
LCSD 880-107091/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107091

Prep Batch: 107091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-3	SW - 3	Total/NA	Solid	5035	
890-7918-4	SW - 4	Total/NA	Solid	5035	
MB 880-107091/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107091/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107091/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 107094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Total/NA	Solid	5035	
890-7918-2	SW - 2	Total/NA	Solid	5035	
MB 880-107094/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107094/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107094/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7918-1 MS	SW - 1	Total/NA	Solid	5035	
890-7918-1 MSD	SW - 1	Total/NA	Solid	5035	

Analysis Batch: 107163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Total/NA	Solid	Total BTEX	
890-7918-2	SW - 2	Total/NA	Solid	Total BTEX	
890-7918-3	SW - 3	Total/NA	Solid	Total BTEX	
890-7918-4	SW - 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-4	SW - 4	Total/NA	Solid	8015NM Prep	
MB 880-107064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107064/3-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: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

GC Semi VOA

Prep Batch: 107065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Total/NA	Solid	8015NM Prep	
890-7918-2	SW - 2	Total/NA	Solid	8015NM Prep	
890-7918-3	SW - 3	Total/NA	Solid	8015NM Prep	
MB 880-107065/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107065/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107065/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-4	SW - 4	Total/NA	Solid	8015B NM	107064
MB 880-107064/1-A	Method Blank	Total/NA	Solid	8015B NM	107064
LCS 880-107064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107064
LCSD 880-107064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107064

Analysis Batch: 107086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Total/NA	Solid	8015B NM	107065
890-7918-2	SW - 2	Total/NA	Solid	8015B NM	107065
890-7918-3	SW - 3	Total/NA	Solid	8015B NM	107065
MB 880-107065/1-A	Method Blank	Total/NA	Solid	8015B NM	107065
LCS 880-107065/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107065
LCSD 880-107065/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107065

Analysis Batch: 107162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Total/NA	Solid	8015 NM	
890-7918-2	SW - 2	Total/NA	Solid	8015 NM	
890-7918-3	SW - 3	Total/NA	Solid	8015 NM	
890-7918-4	SW - 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Soluble	Solid	DI Leach	
MB 880-107077/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107077/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107077/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 107079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-2	SW - 2	Soluble	Solid	DI Leach	
890-7918-3	SW - 3	Soluble	Solid	DI Leach	
890-7918-4	SW - 4	Soluble	Solid	DI Leach	
MB 880-107079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 107109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-1	SW - 1	Soluble	Solid	300.0	107077

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

HPLC/IC (Continued)

Analysis Batch: 107109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-107077/1-A	Method Blank	Soluble	Solid	300.0	107077
LCS 880-107077/2-A	Lab Control Sample	Soluble	Solid	300.0	107077
LCSD 880-107077/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107077

Analysis Batch: 107110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7918-2	SW - 2	Soluble	Solid	300.0	107079
890-7918-3	SW - 3	Soluble	Solid	300.0	107079
890-7918-4	SW - 4	Soluble	Solid	300.0	107079
MB 880-107079/1-A	Method Blank	Soluble	Solid	300.0	107079
LCS 880-107079/2-A	Lab Control Sample	Soluble	Solid	300.0	107079
LCSD 880-107079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107079

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Client Sample ID: SW - 1

Lab Sample ID: 890-7918-1

Date Collected: 04/07/25 09:15

Matrix: Solid

Date Received: 04/07/25 15:40

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	107094	04/08/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107072	04/08/25 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107163	04/08/25 11:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107162	04/08/25 16:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	107065	04/08/25 07:54	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107086	04/08/25 16:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107077	04/08/25 08:35	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107109	04/08/25 15:39	CH	EET MID

Client Sample ID: SW - 2

Lab Sample ID: 890-7918-2

Date Collected: 04/07/25 09:20

Matrix: Solid

Date Received: 04/07/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	107094	04/08/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107072	04/08/25 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107163	04/08/25 12:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107162	04/08/25 16:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	107065	04/08/25 07:54	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107086	04/08/25 16:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107079	04/08/25 08:37	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107110	04/08/25 17:38	CH	EET MID

Client Sample ID: SW - 3

Lab Sample ID: 890-7918-3

Date Collected: 04/07/25 09:25

Matrix: Solid

Date Received: 04/07/25 15:40

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	107091	04/08/25 09:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107076	04/08/25 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107163	04/08/25 12:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107162	04/08/25 16:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107065	04/08/25 07:54	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107086	04/08/25 16:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107079	04/08/25 08:37	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107110	04/08/25 17:45	CH	EET MID

Client Sample ID: SW - 4

Lab Sample ID: 890-7918-4

Date Collected: 04/07/25 09:30

Matrix: Solid

Date Received: 04/07/25 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	107091	04/08/25 09:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107076	04/08/25 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107163	04/08/25 13:19	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Client Sample ID: SW - 4
Date Collected: 04/07/25 09:30
Date Received: 04/07/25 15:40

Lab Sample ID: 890-7918-4
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			107162	04/08/25 16:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107064	04/08/25 07:51	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107084	04/08/25 16:30	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107079	04/08/25 08:37	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107110	04/08/25 17:53	CH	EET MID

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

- 1
- 2
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- 12
- 13
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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
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

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

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-7918-1
SDG: Eddy, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7918-1	SW - 1	Solid	04/07/25 09:15	04/07/25 15:40	0-2
890-7918-2	SW - 2	Solid	04/07/25 09:20	04/07/25 15:40	0-2
890-7918-3	SW - 3	Solid	04/07/25 09:25	04/07/25 15:40	0-2
890-7918-4	SW - 4	Solid	04/07/25 09:30	04/07/25 15:40	0-2

- 1
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- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com

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

Pro	Sta	Rep	Def
890-7918 Chain of Custody			
Level IV ☐			

Project Name:	Shaqtus 26 St 1 Battery	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes	
Project Number:	VP-18302/ESRR#2728	Due Date:	5 Day TAT																None: NO	DI Water: H ₂ O		
Project Location:	Eddy, NM	TAT starts the day received by the lab, if received by 4:30pm																		Coel: Cool	MeOH: Me	
Sampler's Name:	Santiago Giron																			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:	☒ Yes ☒ No	Thermometer ID:	-0.2																		NaHSO ₄ : NABIS	
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:																			Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	14																		Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:																			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
SW-1	S	4.7.25	9:15	0-2	Comp	1	X	X	X											Incident Number		
SW-2	S	4.7.25	9:20	0-2	Comp	1	X	X	X											nAPP2434144241		
SW-3	S	4.7.25	9:25	0-2	Comp	1	X	X	X													
SW-4	S	4.7.25	9:30	0-2	Comp	1	X	X	X													

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM		Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr 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 \$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				
		15:40 4/7/2							
3									
5									

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:	N/A	Teel, Brianna	N/A		890-4858-1
Shipping/Receiving	Phone	Brianna Teel@et.eurofins.com	State of Origin:	Page:	Page 1 of 1
Company:	N/A	Accreditations Required (See note):	TEXAS	Job #:	890-7918-1
Eurofins Environment Testing South Cent		NEIAP - Texas		Preservation Codes:	
Address: 1211 W. Florida Ave.		Due Date Requested:	4/11/2025		
City:	Midland	TAT Requested (days):	N/A		
State Zip:	TX, 79701	PO #:	N/A		
Phone:	432-704-5440(Tel)	WFO #:	N/A		
Email:	N/A	Project #:	88001228		
Project Name:	SHAQTUS 26 ST 1 BATTERY	SSOV#:	N/A		
Site:	N/A	Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		Total_BTEX_GCV			
		8021B/5035FP_Calc BTEX			
		300_ORGFM_28D/DI_LEACH Chloride			
		8015MOD_Calc			
		8015MOD_NM/8015NM_S_Prep 8015 NM			
		Total Number of containers			
		Special Instructions/Note:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, B=biomass, A=air)
SW - 1 (890-7918-1)	4/7/25	09:15	Central	G	Solid
SW - 2 (890-7918-2)	4/7/25	09:20	Central	G	Solid
SW - 3 (890-7918-3)	4/7/25	09:25	Central	G	Solid
SW - 4 (890-7918-4)	4/7/25	09:30	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 subcontracted 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/testing, 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					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: <i>[Signature]</i> Date: 4/17/25 Time: 16:35 Company: <i>[Signature]</i>					
Relinquished by: <i>[Signature]</i> Date/Time: 4/17/25 Company: <i>[Signature]</i>					
Relinquished by: <i>[Signature]</i> Date/Time: 4/17/25 Company: <i>[Signature]</i>					
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.: 30/29 -1 TRC					

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7918-1

SDG Number: Eddy, NM

Login Number: 7918

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: 890-7918-1

SDG Number: Eddy, NM

Login Number: 7918

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 04/08/25 08:52 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	



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 4/23/2025 4:18:58 PM

JOB DESCRIPTION

Shaqtus 26 St 1 Battery
Eddy County, NM

JOB NUMBER

890-8019-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



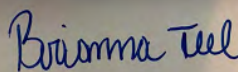
Eurofins Carlsbad

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
4/23/2025 4:18:58 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: Shaqtus 26 St 1 Battery

Laboratory Job ID: 890-8019-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
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
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: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1

Job ID: 890-8019-1

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Job Narrative 890-8019-1

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 sample was received on 4/22/2025 1:58 PM. Unless otherwise noted below, the sample 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 sample was received and analyzed from an unpreserved bulk soil jar: CS-4 (890-8019-1).

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 880-108381 and analytical batch 880-108423 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-108381/2-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.

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: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-8019-1

Date Collected: 04/22/25 12:00

Matrix: Solid

Date Received: 04/22/25 13:58

Sample Depth: 2.5

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		04/23/25 08:43	04/23/25 11:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/23/25 08:43	04/23/25 11:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/23/25 08:43	04/23/25 11:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/23/25 08:43	04/23/25 11:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/23/25 08:43	04/23/25 11:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/23/25 08:43	04/23/25 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/23/25 08:43	04/23/25 11:57	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/23/25 08:43	04/23/25 11:57	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			04/23/25 11:57	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			04/23/25 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	<49.9	U	49.9		mg/Kg		04/23/25 08:35	04/23/25 11:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/23/25 08:35	04/23/25 11:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/23/25 08:35	04/23/25 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	04/23/25 08:35	04/23/25 11:29	1
o-Terphenyl	99		70 - 130	04/23/25 08:35	04/23/25 11:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		9.94		mg/Kg			04/23/25 11:08	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
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)
890-8019-1	CS-4	108	99
LCS 880-108388/1-A	Lab Control Sample	99	100
LCSD 880-108388/2-A	Lab Control Sample Dup	99	101
MB 880-108388/5-A	Method Blank	100	94
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)
890-8019-1	CS-4	89	99
890-8019-1 MS	CS-4	112	108
890-8019-1 MSD	CS-4	111	107
LCS 880-108381/2-A	Lab Control Sample	131 S1+	123
LCSD 880-108381/3-A	Lab Control Sample Dup	112	108
MB 880-108381/1-A	Method Blank	134 S1+	134 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108388/5-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 08:43	04/23/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 08:43	04/23/25 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/23/25 08:43	04/23/25 11:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/23/25 08:43	04/23/25 11:15	1

Lab Sample ID: LCS 880-108388/1-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09190		mg/Kg		92	70 - 130
Toluene	0.100	0.08658		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09126		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09322		mg/Kg		93	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 880-108388/2-A

Matrix: Solid

Analysis Batch: 108374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09719		mg/Kg		97	70 - 130	6	35
Toluene	0.100	0.09155		mg/Kg		92	70 - 130	6	35
Ethylbenzene	0.100	0.09584		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.09738		mg/Kg		97	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-108381/1-A

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108381

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		04/23/25 08:34	04/23/25 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/23/25 08:34	04/23/25 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/23/25 08:34	04/23/25 08:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				04/23/25 08:34	04/23/25 08:51	1
o-Terphenyl	134	S1+	70 - 130				04/23/25 08:34	04/23/25 08:51	1

Lab Sample ID: LCS 880-108381/2-A

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1217		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1138		mg/Kg		114	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	131	S1+	70 - 130				
o-Terphenyl	123		70 - 130				

Lab Sample ID: LCSD 880-108381/3-A

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108381

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		110	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	975.2		mg/Kg		98	70 - 130	15	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	112		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: 890-8019-1 MS

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: CS-4

Prep Type: Total/NA

Prep Batch: 108381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1057		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	988.4		mg/Kg		98	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

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

Lab Sample ID: 890-8019-1 MS

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: CS-4

Prep Type: Total/NA

Prep Batch: 108381

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-8019-1 MSD

Matrix: Solid

Analysis Batch: 108423

Client Sample ID: CS-4

Prep Type: Total/NA

Prep Batch: 108381

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	<49.9	U	995	1042		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	946.0		mg/Kg		93	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108383/1-A

Matrix: Solid

Analysis Batch: 108395

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			04/23/25 08:52	1

Lab Sample ID: LCS 880-108383/2-A

Matrix: Solid

Analysis Batch: 108395

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.2		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-108383/3-A

Matrix: Solid

Analysis Batch: 108395

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	242.3		mg/Kg		97	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 108374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Total/NA	Solid	8021B	108388
MB 880-108388/5-A	Method Blank	Total/NA	Solid	8021B	108388
LCS 880-108388/1-A	Lab Control Sample	Total/NA	Solid	8021B	108388
LCSD 880-108388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108388

Prep Batch: 108388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Total/NA	Solid	5035	
MB 880-108388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 108463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Total/NA	Solid	8015NM Prep	
MB 880-108381/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108381/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108381/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8019-1 MS	CS-4	Total/NA	Solid	8015NM Prep	
890-8019-1 MSD	CS-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Total/NA	Solid	8015B NM	108381
MB 880-108381/1-A	Method Blank	Total/NA	Solid	8015B NM	108381
LCS 880-108381/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108381
LCSD 880-108381/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108381
890-8019-1 MS	CS-4	Total/NA	Solid	8015B NM	108381
890-8019-1 MSD	CS-4	Total/NA	Solid	8015B NM	108381

Analysis Batch: 108490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 108383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Soluble	Solid	DI Leach	
MB 880-108383/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108383/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108383/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 108395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8019-1	CS-4	Soluble	Solid	300.0	108383

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 108395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108383/1-A	Method Blank	Soluble	Solid	300.0	108383
LCS 880-108383/2-A	Lab Control Sample	Soluble	Solid	300.0	108383
LCSD 880-108383/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108383

- 1
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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

Client Sample ID: CS-4
Date Collected: 04/22/25 12:00
Date Received: 04/22/25 13:58

Lab Sample ID: 890-8019-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108388	04/23/25 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108374	04/23/25 11:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108463	04/23/25 11:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			108490	04/23/25 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108381	04/23/25 08:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108423	04/23/25 11:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108383	04/23/25 08:39	SA	EET MID
Soluble	Analysis	300.0		1			108395	04/23/25 11:08	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: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
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

- 1
- 2
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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
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: Shaqtus 26 St 1 Battery

Job ID: 890-8019-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8019-1	CS-4	Solid	04/22/25 12:00	04/22/25 13:58	2.5

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



Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody



890-8019 Chain of Custody

of _____

Work Order Comments			
Program:	UST/PST ☐	PRF ☐	Brownfields ☐ RRD ☐ Superfund ☐
State of Project:			
Reporting:	Level II ☐	Level III ☐	PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐	Adapt ☐	Other: ☐

ANALYSIS REQUEST										Preservative Codes			
Project Name:	Shaquus 26 St. 1 Battery			Turn Around						None: NO	DI Water: H ₂ O		
Project Number:	VP-18302/ ESRR #2728			☐ Routine	☒ Rush					Cool: Cool	MeOH: Me		
Project Location:	Eddy County, NM			Due Date:		24 HR TAT				HCL: HC	HNO ₃ : HN		
Sampler's Name:	Gilbert Moreno			TAT starts the day received by the lab, if received by 4:30pm								H ₂ SO ₄ : H ₂	NaOH: Na
POWO #:												H ₃ PO ₄ : HP	
SAMPLE RECEIPT				Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No					NaHSO ₄ : NABIS	
Samples Received Intact:	☒ Yes ☐ No		Thermometer ID:	TAN2007								Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals:	☒ Yes ☐ No		Correction Factor:	20.2								Zn Acetate+NaOH: Zn	
Sample Custody Seals:	☒ Yes ☐ No		Temperature Reading:	1.8								NaOH+Ascorbic Acid: SAPC	
Total Containers:			Corrected Temperature:										
Parameters													
NM													
h													

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	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	

Hg: 1631 / 245.1 / 7470 / 7471

of service. Eurofins Xenoa 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 Xenoa. A minimum charge of \$38.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xenoa, but not analyzed. These terms will be enforced unless previously negotiated. **Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoa, its affiliates and subcontractors. It assigns standard terms and conditions.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		13:58 4/22			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8019-1

SDG Number: Eddy County, NM

Login Number: 8019

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: 890-8019-1

SDG Number: Eddy County, NM

Login Number: 8019

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 04/23/25 08:43 AM

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 420658

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 420658
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434144241
Incident Name	NAPP2434144241 SHAQTUS 26 ST 1 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123649448] SHAQTUS 26 ST 1 BATTERY

Location of Release Source	
Site Name	SHAQTUS 26 ST 1 BATTERY
Date Release Discovered	12/06/2024
Surface Owner	State

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	3,710
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/17/2025
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to liner inspection site	From the intersection of Hwy 128 and Wipp Road, Drive North on Wipp road for 8.56 miles; Turn East onto lease road and drive 1.38 miles; Turn North onto lease road and drive 0.97 miles; Turn West onto lease road and drive 0.21 miles

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

CONDITIONS

Action 420658

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 420658
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	1/14/2025

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

QUESTIONS

Action 446834

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 446834
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434144241
Incident Name	NAPP2434144241 SHAQTUS 26 ST 1 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123649448] SHAQTUS 26 ST 1 BATTERY

Location of Release Source	
Site Name	SHAQTUS 26 ST 1 BATTERY
Date Release Discovered	12/06/2024
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	3,200
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/04/2025
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	32.439701,-103.75201

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 446834

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 446834
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/29/2025

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

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 446835

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 446835
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434144241
Incident Name	NAPP2434144241 SHAQTUS 26 ST 1 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123649448] SHAQTUS 26 ST 1 BATTERY

Location of Release Source	
Site Name	SHAQTUS 26 ST 1 BATTERY
Date Release Discovered	12/06/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,200
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/07/2025
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	32.439701,-103.75201

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 446835

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 446835
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/29/2025



RE: [EXTERNAL] Re: Soil Sampling Activities - Shaqtus 26 St 1 Battery - nAPP2434144241

From Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Date Wed 4/16/2025 12:50 PM

To Gilbert Moreno <gmoreno@earthsys.net>; eco@nmslo.gov <eco@nmslo.gov>

Cc Raley, Jim <jim.rale@dm.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

You don't often get email from michael.buchanan@emnrd.nm.gov. [Learn why this is important](#)

Good afternoon, Mr. Moreno

The re-scheduled sampling activities and notification for Shaqtus 26 St 1 Battery - nAPP2434144241 has been updated in the incident file to reflect the change. Please place a copy of this approval in the report when it is submitted to the OCD.

Thank you,

Mike Buchanan • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

5200 Oakland Ave NE, Suite B | Albuquerque, NM 87113

505.490.0798 | michael.buchanan@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd>



From: Gilbert Moreno <gmoreno@earthsys.net>

Sent: Wednesday, April 16, 2025 1:05 PM

To: eco@nmslo.gov; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Raley, Jim <jim.rale@dm.com>

Subject: [EXTERNAL] Re: Soil Sampling Activities - Shaqtus 26 St 1 Battery - nAPP2434144241

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

Hello,

Due to an unforeseen safety stand down and a change in contractor, the anticipated soil sampling on April 18th will need to be rescheduled for April 22, 2025.

Thanks!

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



From: Gilbert Moreno
Sent: Monday, April 14, 2025 8:01 AM
To: eco@nmslo.gov <eco@nmslo.gov>; ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>
Cc: Raley, Jim <jim.raley@dmv.com>
Subject: Soil Sampling Activities - Shaqtus 26 St 1 Battery - nAPP2434144241

Hello,

Earth Systems R & R anticipates conducting soil sampling activities at the Shaqtus 26 St 1 Battery, April 18th, 2025. This email will be followed up with a Notification of Sampling (C-141N) for the proposed date(s).

Proposed Time:	08:00-17:00 MST
Site Name:	Shaqtus 26 St 1 Battery
Incident Number:	nAPP2434144241
Sampling Surface Area:	200 sq. ft.
Samples to be collected:	1
Sampling Date(s):	4/18/2025
Who to Contact:	Gilbert Moreno (832) 541-7719
Site GPS:	32.439701,-103.75201

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

From: [Gilbert Moreno](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] Re: NAPP2434144241 SHAQTUS 26 ST 1 BATTERY
Date: Wednesday, June 4, 2025 2:55:49 PM
Attachments: [Outlook-x3h5u4p4.png](#)
[nAPP2434144241_Figures 2 & 3.pdf](#)

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

Hi Shelley!

Sorry about that and thanks for reaching out. See attached. Let me know if this work.

Thanks!

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, June 4, 2025 1:43 PM
To: Gilbert Moreno <gmoreno@earthsys.net>
Subject: NAPP2434144241 SHAQTUS 26 ST 1 BATTERY

Hi Gilbert,

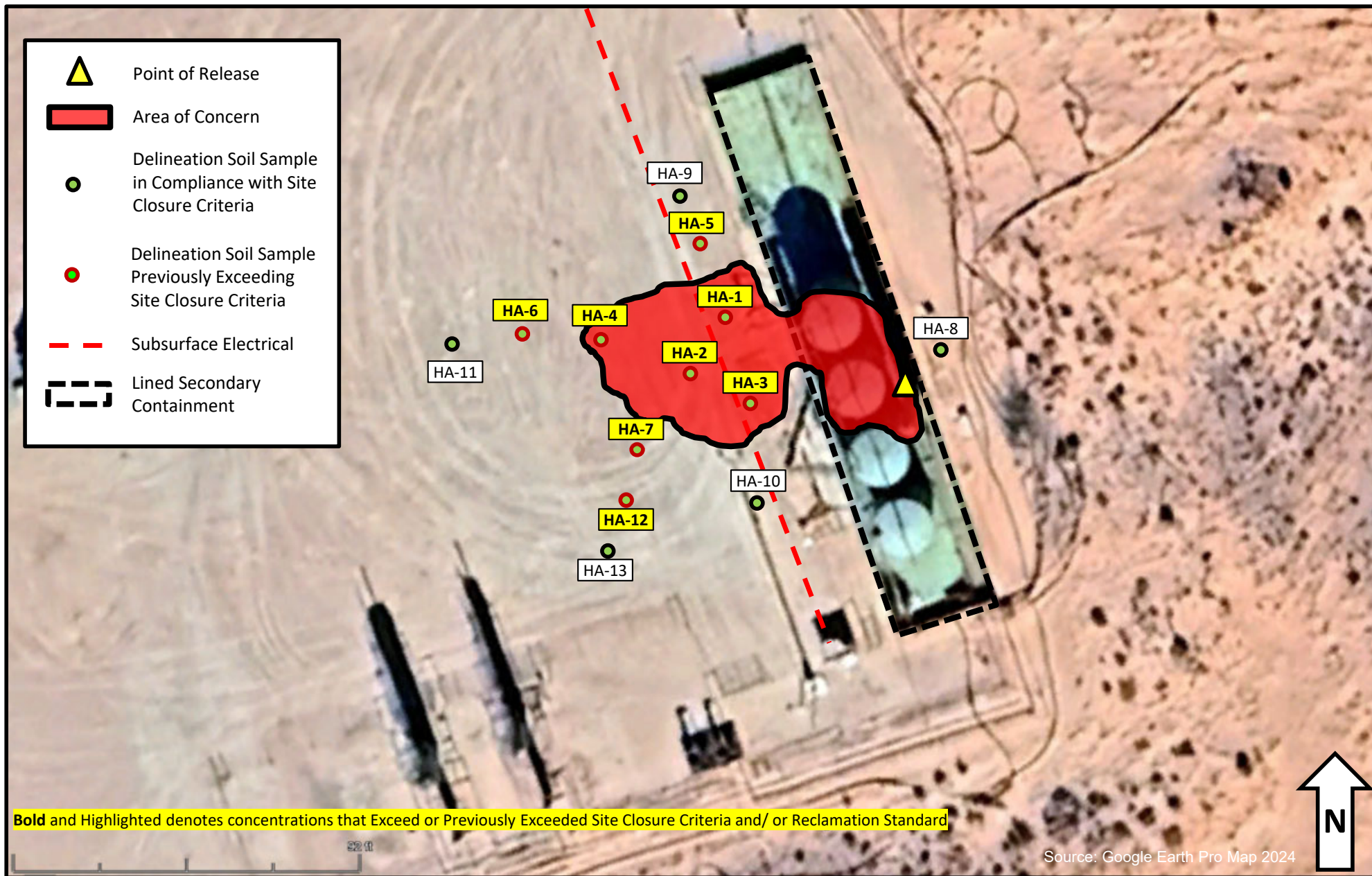
I am reviewing the remediation closure report submitted for NAPP2434144241 SHAQTUS 26 ST 1 BATTERY and have a question for you. I just noticed the scale is missing from both Figures 2 and 3. Are you able to get them updated and send those over to me?

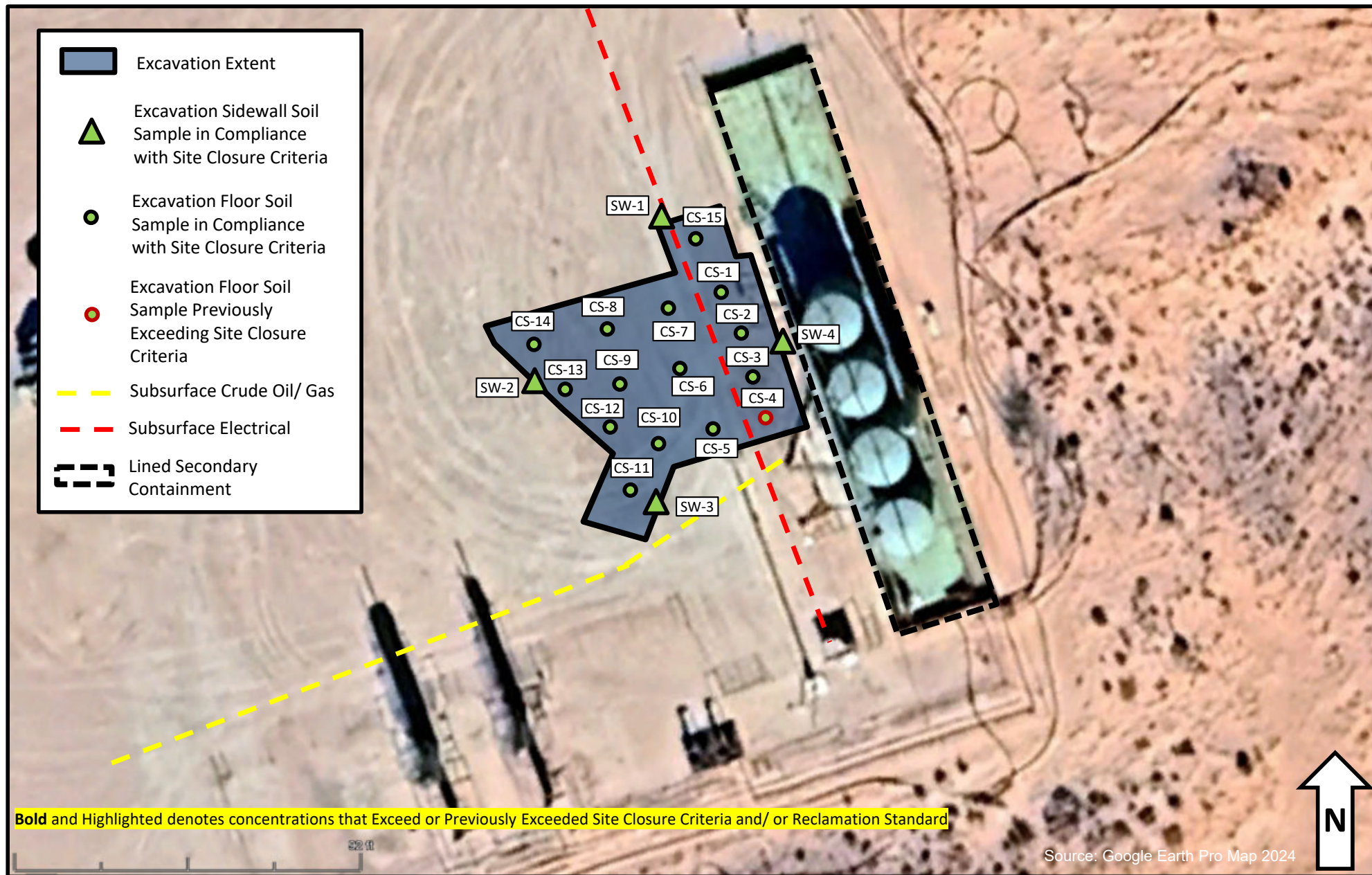
Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>





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

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 465852

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 465852
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434144241
Incident Name	NAPP2434144241 SHAQTUS 26 ST 1 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2123649448] SHAQTUS 26 ST 1 BATTERY

Location of Release Source*Please answer all the questions in this group.*

Site Name	SHAQTUS 26 ST 1 BATTERY
Date Release Discovered	12/06/2024
Surface Owner	State

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: Equipment Failure Treating Tower Crude Oil Released: 10 BBL Recovered: 9 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Treating Tower Produced Water Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Pressure relief valve went off on Vapor Recovery Tower This allowed mostly oil to be sprayed on equipment and tank battery. Most of the fluids were contained in secondary containment. But some oil impacted the pad surface, around 1 bbl.

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QUESTIONS, Page 2

Action 465852

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 465852
	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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 12/18/2024
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QUESTIONS, Page 3

Action 465852

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 465852
	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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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 ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	2780
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	390
GRO+DRO (EPA SW-846 Method 8015M)	390
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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	04/03/2025
On what date will (or did) the final sampling or liner inspection occur	04/18/2025
On what date will (or was) the remediation complete(d)	04/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	3000
What is the estimated volume (in cubic yards) that will be reclaimed	188
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	188
<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 465852

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 465852
	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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 05/21/2025
<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 465852

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 465852
	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 465852

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 465852
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	451508
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/18/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3000
What was the total volume (cubic yards) remediated	188
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	3000
What was the total volume (in cubic yards) reclaimed	188
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 05/21/2025
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QUESTIONS, Page 7

Action 465852

QUESTIONS (continued)

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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 465852

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/4/2025