

September 29, 2025

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

RE: Mulva - Closure Request Report

Incident Number: nAPP2509160854 GPS: 32.183455°, -103.355595° Lea County, New Mexico ESRR Project No. VP-210

To Whom It May Concern:

Earth Systems Response & Restoration (ESSR) presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil at the Mulva (Site), owned by Salt Creek Midstream, LLC and operated by SCM Operations, LLC (SCM), OGRID# 330368. Based on completed remedial actions and laboratory analytical results from recent soil sampling events, SCM is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit N, Section 27, Township 24 South, Range 35 East, in Lea County, New Mexico (32.183455°, -103.355595°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1**).

On March 21, 2025, A subsurface flowline ruptured due to corrosion, causing the release of approximately 19 barrels (bbls) of crude oil onto a production pad operated by Civitas Resources. Salt Creek reported no recovered fluids. ESRR was contracted on April 1, 2025 and conducted initial site assessment activities by mapping the observed release footprint on April 3, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). SCM gave notice to the New Mexico Oil Conservation Division (NMOCD) on April 1, 2025, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2509160854. On May 5, 2025, SCM reported the release on a Corrective Action Form C-141 (Form C-141).

Site Characterization

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

- Between 1,000 feet and ½ mile of any continuously flowing watercourse or any other significant watercourse;
- Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark):
- Between 1 and 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Detween 1 and 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;

Page 1 of 4



- Between 1 and 5 miles of any other freshwater well or spring;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1,000 feet and ½ mile of any wetland;
- o Greater than 5 miles of any subsurface mine;
- o Greater than 5 miles of any unstable area (i.e. high karst potential); and
- 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 and depth to ground water estimated to be greater than 50 feet below ground surface (bgs), the following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria [‡]
Chloride	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	1,000 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.

Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Delineation Activities

On April 16, 2025, ESRR conducted delineation activities to assess the presence or absence of soil impacts associated with the AOC. Eight delineation boreholes (HA-1 through HA-6) were advanced via hand auger within the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips and volatile organic compounds by a calibrated Photo Ionization Detector (PID). A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for samples collected within the AOC (HA-1 through HA-6) indicated TPH-GRO+TPH-DRO/TPH, Benzene, and/ or Total BTEX were above the Site Closure Criteria and/or the reclamation standard. Elevated TPH-GRO+TPH-DRO/TPH is characterized by concentrations ranging from 9,470 mg/kg to 37,200 mg/kg, specifically for TPH-GRO and TPH-DRO. Elevated Benzene is characterized by concentrations ranging from 10.8 mg/kg to 44.2 mg/kg. Elevated Total BTEX is characterized by concentrations ranging from 198 mg/kg to 698 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

Remediation Activities

From June 30, 2025 through August 5, 2025, ESRR oversaw excavation activities conducted by SCM contracted personnel of identified impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths approximately ranging from 4 to 10-feet bgs.

Page 2 of 4



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-8) and sidewalls (SW-1 through SW-10). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag and handled, transported, and analyzed as previously described.

Laboratory analytical results for confirmation soil samples (SW-1 through SW-8) were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the excavation extent.

Laboratory analytical results for confirmation soil samples (CS-2 and CS-3) indicated TPH-GRO and TPH-DRO and/ or Benzene concentrations exceed the Site Closure Criteria. Elevated TPH-GRO and TPH-DRO concentrations are characterized by concentrations ranging from 1,783 mg/kg to 2,227 mg/kg at 6-feet bgs. Elevated benzene concentration is characterized by a concentration of 56.0 mg/kg at 6-feet bgs for CS-3.

Continued Remediation Activities

Additional excavation in the proximities to confirmation soil samples (CS-2 and CS-3) were vertically advanced to an approximate depth of 8-feet bgs. Following the removal of soil, ESRR collected, handled, transported, and analyzed the confirmation soil samples as previously described.

Laboratory analytical results for confirmation soil sample (CS-3) indicated TPH-GRO and TPH-DRO concentrations exceed the Site Closure Criteria. Elevated TPH-GRO and TPH-DRO concentrations are characterized by a concentration of 1,740 mg/kg at 8-feet bgs.

Additional excavation in the proximity to confirmation soil sample (CS-3) was vertically advanced to an approximate depth of 10-feet bgs. Following the removal of soil, ESRR collected, handled, transported, and analyzed the confirmation soil samples as previously described.

Laboratory analytical results indicated that concentrations of COCs for all final confirmation soil samples (CS-1 through CS-8 and SW-1 through SW-10) do not exceed 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 720 cubic yards (CY) of impacted soil was removed from the Site and transported to the Northern Delaware Basin Disposal in Jal, New Mexico under SCM 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. **Photographic Documentation** of all activities are attached.

Closure Request

Based on laboratory analytical results for all final confirmation soil samples, SCM believes that soil impacts associated with the inadvertent release have been excavated and removed from the Site. SCM 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 Salt Creek requests Closure of this CRR associated with Incident Number nAPP2509160854.

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

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

Gilbert Moreno

Carlsbad Operations Manager/ Project Geologist

Kris Williams, CHMM, REM

Kris Williams

Principal

cc: Susan Worthen, Salt Creek Midstream

Attachments:

Figure 1 - Site Map

Figure 1A - Ground Water

Figure 1B - Karst Potential

Figure 2 - Delineation Soil Sample Locations

Referenced Well Records

Table 1 - Soil Sample Analytical Results

Figure 3 - Excavation Soil Sample Locations

Photographic Documentation

NMOCD Email Documentation & Correspondance

Executed Chain-of-Custody Forms and Laboratory Analytical Reports

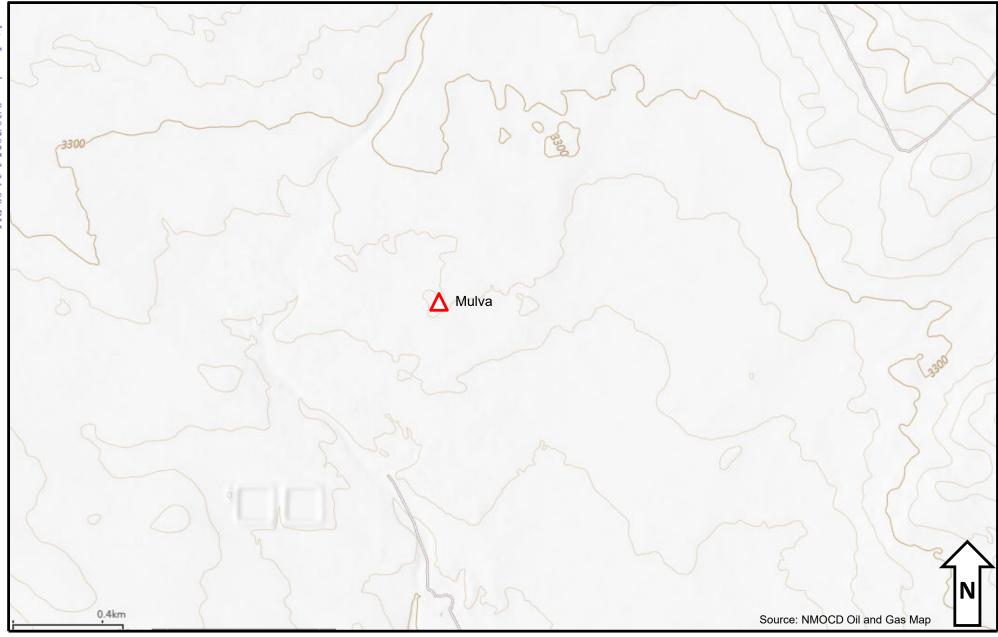




Figure 1 – Site Map



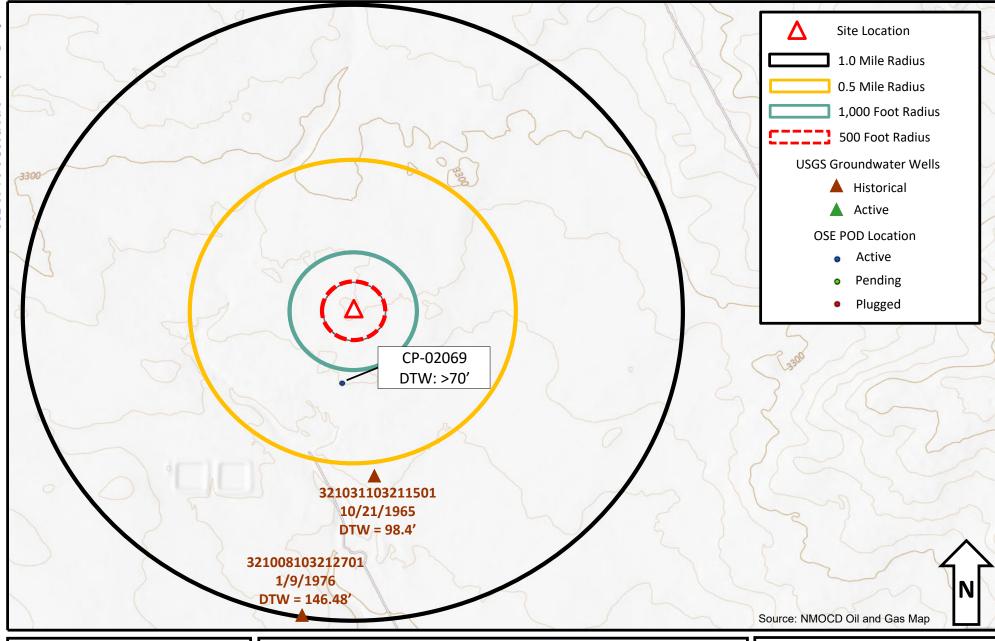




Figure 1A – Ground Water



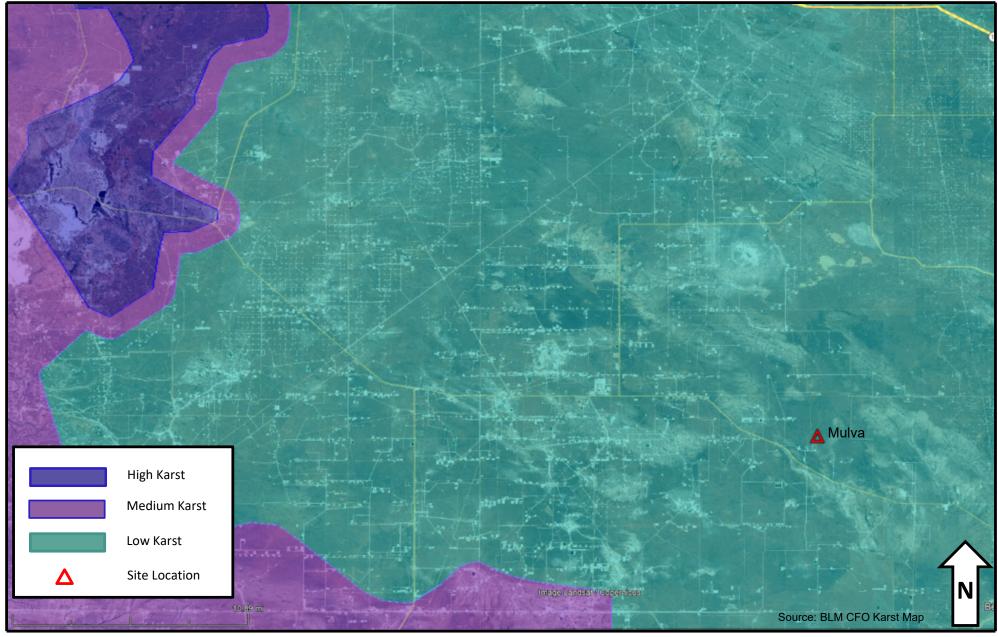




Figure 1B - Karst Potential





Figure 2 – Delineation Soil Sample Locations



PAGE 1 OF 2

FILE NO.

LOCATION



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

Z	OSE POD NO	O. (WELL NO W-1)	D.)		WELL TAG ID NO	О.		OSE FILE NO	(S).		
OCATIC	WELL OWNER NAME(S) Salt Creek Midstream, LLC							PHONE (OPT (281) 949-8			
WELL L	WELL OWNER MAILING ADDRESS 5775 N Sam Houston Pkwy, Suite 600									STATE TX	ZIP 77086
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GI	ON LA	TITUDE	32 -103	MINUTES 10	SECONDS 48.3	N W		/ REQUIRED: ONE TEN	NTH OF A SECOND	
1. GENE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE NE NE NW Sec 34 T24S R35E										
	LICENSE NO WD -		NAME OF LICENSE		Jason R Shubert				NAME OF WELL DE	RILLING COMPANY Talon/LPE, Ltd.	
DRILLING & CASING INFORMATION	DRILLING S' 07/30/		DRILLING ENDED 07/30/2025	DEPTH OF CO	MPLETED WELL (F 70	T) BO	RE HOI	LE DEPTH (FT) 95	DEPTH WATER FIR	est encountered (fi Dry	Γ)
	COMPLETE	O WELL IS:	ARTESIAN *add Centralizer info b		E SHALLO	W (UNCONFI	NED)		STATIC WATER LEVEL IN COMPLETED WELL (FT) DATE STATIC		
	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:										
	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:								CHECK INSTAI	THERE IF PITLESS ADA LLED	APTER IS
	DEPTH (feet bgl) FROM TO DIAM (inches)		(include each casing string, and			CONN	SING ECTION YPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches	
& CA	0	50	6.25		40 PVC - Riser	(ac	(add coupling diameter Threaded		2	0.25	-
2. DRILLING	50	70	6.25	Sch 4	40 PVC - Screen		Thr	readed	2	0.25	0.010
RIAL	DEPTH (feet bgl)	BORE HOLE DIAM. (inches)		tralizers for Artesia	' INTERVAL n wells- indic	ate the s		AMOUNT (cubic feet)	METHO PLACEN	
3. ANNULAR MATERIAL		*(if using Centralizers for Artesian wells- indicate the space of the									

POD NO.

TRN NO.

WELL TAG ID NO.

DEPTH (feet bgl)

TO

FROM

THICKNESS

(feet)

ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)

WATER BEARING?

(YES/NO)

TURE	THE UNDERSIGNED HEREBY CERTIFIES THAT CORRECT RECORD OF THE ABOVE DESCRIB AND THE PERMIT HOLDER WITHIN 30 DAYS	ED HOLE AND THAT HE OR SHE	WILL FILE THIS WELL RECORD WI	
6. SIGNAT	Digitally signed by Jason R Shubert DN: cn=Jason R Shubert, o=TalonI.PE [Lid, ou=01, cmall=jshubert@lalonlpe.com, c=US Date: 2025.08.28 [6:35:50-05'00'	Jason R Shubert	08	/28/2025
•	SIGNATURE OF DRILLER / PR	DATE		
FOI	R OSE INTERNAL USE		WR-20 WELL RECORD	& LOG (Version 09/22/2022
FIL	LE NO.	POD NO.	TRN NO.	
LO	CATION		WELL TAG ID NO.	PAGE 2 OF 2

	0	2	2	CLHE: Click	he, dry, tan, fine to coarse, abu	ndant small to large grav	vel. Y	✓ N	
	2	20	18	SP: Sand, dry	, reddish brown, fine, trace sm	all caliche gravel, trace	silt. Y	✓N	
					@10': Color change to lighte	r red-brown.	Y	✓ N	
					@15': Some Tan mottling, in	creased silt.	Y	√N	
	20	30	10	CLHE	: Cliche, dry, tan, fine to coarse	e, very consolidated.	Y	√N	
T	30	70	40		SP: Sand, dry, tan, fi	ne.	Y	√ N	
WEI					@50': Color change to lighter	an, trace silt.	Y	√ N	
OF					@60': Color change to ligh	nt brown.	Y	✓ N	
507					@65': Color change to b	prown.	Y	√N	
4. HYDROGEOLOGIC LOG OF WELL							Y	N	
TOO							Y	N	
GEO							Y	N	
RO							Y	N	
HYL							Y	N	
4.							Y	N	
							Y	N	
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	SHEET ST						Y	N	
							Y	N	
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	PUMP	AII	R LIFT	BAILER	OTHER - SPECIFY:		WELL YIELD	(gpm):	
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TEST	PRINT NAMI	E(S) OF DR	ILL RIG SUPERV	VISOR(S) THAT P	ROVIDED ONSITE SUPERV	ISION OF WELL CON	ISTRUCTION OT	HER THA	N LICENSEE:
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RE	CORRECT RI	ECORD OF	THE ABOVE DE	ESCRIBED HOLE	E BEST OF HIS OR HER KN AND THAT HE OR SHE WI	LL FILE THIS WELL I	IEF, THE FOREG	GOING IS THE STAT	A TRUE AND E ENGINEER
ATU	AND THE PE		DER WITHIN 30 itally signed by Jason R Shubert		OMPLETION OF WELL DRII	LLING:			
SIGNATURE	Jun Shu	lect Ltd,	cn=Jason R Shubert, o=TalonLl ou=01, il=jshubert@talonlpe.com, c=US o: 2025.08.28 16:35:50 -05'00'	PE	Jason R Shubert		08/28/	2025	
		SIGNATU	RE OF DRILLER	PRINT SIGNI	EE NAME			DATE	
FOR	OSE INTERNA	AI IISE				WD 20 WE	LL RECORD & L	OG (Vorsi	on 09/22/2022\
	E NO.	IL USE			POD NO.	TRN NO.	LL KECOKD & L	OG (versio	JII U 91 Z Z 1 Z U Z Z)

COLOR AND TYPE OF MATERIAL ENCOUNTERED -

INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES

(attach supplemental sheets to fully describe all units)

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PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	NERAL / WELL OWNERSHIP:	
State	ngineer Well Number: CP-2069	
Well	wner: Salt Creek Midstream, LLC Phone No.: (281)	949-8794
	g address: 5775 N Sam Houston Pkwy, Suite 600	
City:	douston State:TX	Zip code: <u>77086</u>
II. W	LL PLUGGING INFORMATION:	
1)	Name of well drilling company that plugged well: Talon/LPE, Ltd.	
2)	New Mexico Well Driller License No.: WD-1898 Expiration	on Date: 04/17/2027
3)	Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Jason R Shubert / Jesse W Tausch	
4)	Date well plugging began: 08/04/2025 Date well plugging concluded: 0	8/04/2025
5)	GPS Well Location: Latitude: 32 deg, 10 min, 48.3 Longitude: -103 deg, 21 min, 22.4	sec sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as: ft below ground level (bg by the following manner: Down-hole tape	1),
7)	Static water level measured at initiation of plugging: ft bgl	
8)	Date well plugging plan of operations was approved by the State Engineer:06/06/2025	
9)	Were all plugging activities consistent with an approved plugging plan? No differences between the approved plugging plan and the well as it was plugged (attach additional).	If not, please describe tional pages as needed):
Temp	ell pulled and plugged with bentonite bottom to top.	

Version: September 8, 2009 Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0'-70' Hydrated Bentonite Chips	111.56	111.56	Gravity	All casing pulled prior
-					
		MULTIPLY 7.4	BY AND OBTAIN 4805 = gallons		

III. SIGNATURE:

I, Jason R Shubert

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, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

201.97

cubic yards

08/28/2025

Signature of Well Driller

gallons

Date

Version: September 8, 2009

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Table 1 SOIL SAMPLE ANALYTICAL RESULTS Mulva Lea 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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
MOCD Table I Closu elease (NMAC 19.15		ils Impacted by a	10	50	NE	NE	NE	1,000	2,500	10,000
				Deline	eation Soil Samples - ı	nAPP2509160854				
HA-1	04/16/25	0.5	5.33	322	4,340	11,900	<500	16,240	16,200	122
HA-1	04/16/25	1	14.0	289	4,650	4,820	<49.8	9,470	9,470	130
HA-1	04/16/25	2	23.8	346	7,060	7,910	<250	14,970	15,000	105
HA-1	04/16/25	3	18.8	540	6,180	8,360	<249	14,540	14,500	133
HA-1	04/16/25	4	23.2	373	7,440	8,940	<250	16,380	16,400	135
HA-2	04/16/25	0.5	2.62	198	5,020	16,200	<498	21,220	21,200	148
HA-2	04/16/25	1	13.8	263	5,620	9,330	<249	14,950	15,000	143
HA-2	04/16/25	2	10.8	331	7,090	9,540	<250	16,630	16,600	174
HA-2	04/16/25	3	34.9	510	8,480	8,790	<249	17,270	17,300	215
HA-2	04/16/25	4	29.1	342	6,610	6,860	<250	13,470	13,500	450
HA-3	04/16/25	0.5	13.4	414	8,640	24,100	<999	32,740	32,700	139
HA-3	04/16/25	1	8.06	268	3,640	7,890	<249	11,530	11,500	143
HA-4	04/16/25	0.5	44.2	698	11,900	21,500	<997	33,400	33,400	93.9
HA-4	04/16/25	1	24.6	427	7,730	9,410	<250	17,140	17,100	118
HA-5	04/16/25	0.5	28.2	484	10,300	26,900	<994	37,200	37,200	87.1
HA-5	04/16/25	1	28.7	514	6,840	8,170	<249	15,010	15,000	111
HA-6	04/16/25	0.5	14.5	433	12,500	24,600	<993	37,100	37,100	115
HA-6	04/16/25	1	7.01	265	5,920	8,060	<250	13,980	14,000	146
				Confirm	mation Soil Samples -	nAPP2509160854				
CS - 1	07/03/25	6	<0.0497	1.14	<49.9	294	<49.9	294	294	96.7
CS - 2	07/03/25	6	0.579	32.0	453	1,330	<49.9	1,783	1,780	142
CS - 2	07/31/25	8	0.0229	5.94	<49.8	120	<49.8	120	120	14.9
CS - 3	07/03/25	6	0.782	56.0	547	1,680	<50.0	2,227	2,230	117
CS - 3	07/31/25	8	0.287	28.6	440	1,300	<50.5	1,740	1,740	10.0
CS - 3	08/05/25	10	<0.00198	0.0178	<50.0	79.4	<50.0	79.4	79.4	246
CS - 4	07/17/25	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	98.0
CS - 5	07/22/25	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0

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Table 1 SOIL SAMPLE ANALYTICAL RESULTS Mulva Lea 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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closu Release (NMAC 19.15.		ils Impacted by a	10	50	NE	NE	NE	1,000	2,500	10,000
				Confirm	nation Soil Samples -	nAPP2509160854				
CS - 6	07/22/25	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
CS - 7	07/22/25	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0
CS - 8	07/22/25	4	0.00286	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
SW - 1	07/03/25	0-6	<0.00200	<0.00399	<49.8	72.6	<49.8	72.6	72.6	145
SW - 2	07/03/25	0-6	<0.0101	<0.0202	<49.8	<49.8	<49.8	<49.8	<49.8	142
SW - 3	07/03/25	0-6	<0.00992	<0.0198	<49.7	<49.7	<49.7	<49.7	<49.7	94.5
SW - 4	07/17/25	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	136
SW - 5	07/17/25	0-4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	118
SW - 6	07/22/25	0-4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	20.0
SW - 7	07/22/25	0-4	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	<10.1
SW - 8	07/22/25	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98
SW - 9	08/05/25	6-10	<0.00198	0.0646	<49.8	<49.8	<49.8	<49.8	<49.8	14.5
SW - 10	08/05/25	6-10	<0.00200	0.0451	<50.0	<50.0	<50.0	<50.0	<50.0	15.8

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

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

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

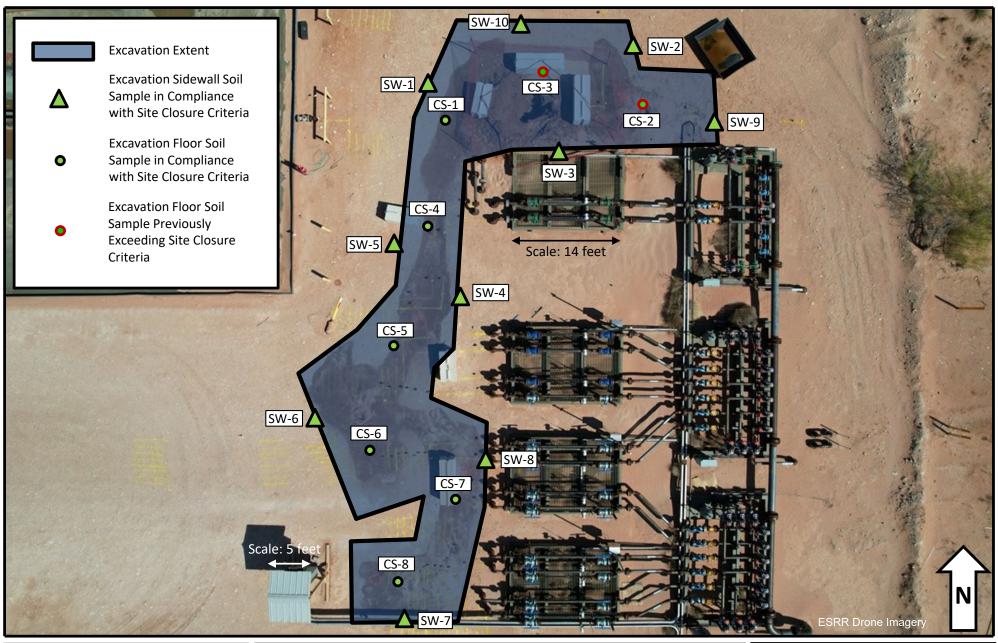




Figure 3 – Excavation Soil Sample Locations







PHOTO 1: Northwest view of AOC during initial site assessment activities. 4/3/2025

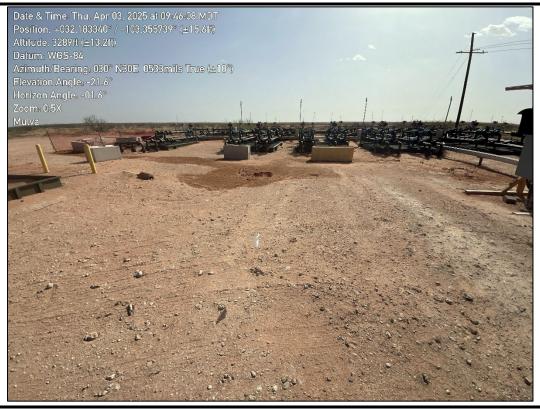


PHOTO 2: Northeast view of AOC during initial site assessment activities. 4/3/2025





PHOTO 3: Northwest view during delineation activities. 4/16/2025



PHOTO 4: Southwest view during delineation activities. 4/16/2025





PHOTO 5: Southeast view during delineation activities. 4/16/2025



PHOTO 6: Northwest view during excavation activities. 7/1/2025





PHOTO 7: Northeast view during excavation activities. 7/2/2025

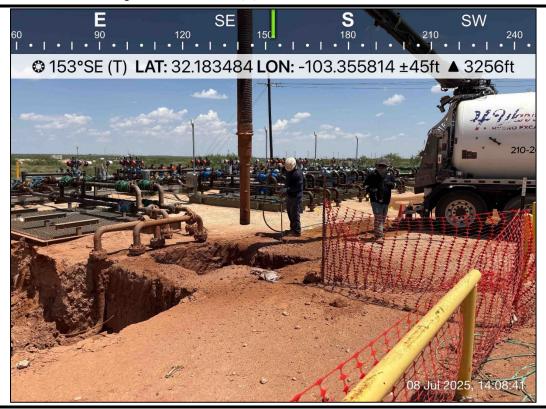


PHOTO 8: Southeast view during excavation activities. 7/8/2025





PHOTO 9: Northeast view during excavation activities. 7/10/2025



PHOTO 10: Northeast view of excavation extent. 7/10/2025





PHOTO 11: Northeast view of excavation extent. 7/15/2025



PHOTO 12: Southeast view during excavation activities. 7/18/2025





PHOTO 13: Northeast view during excavation activities. 7/18/2025

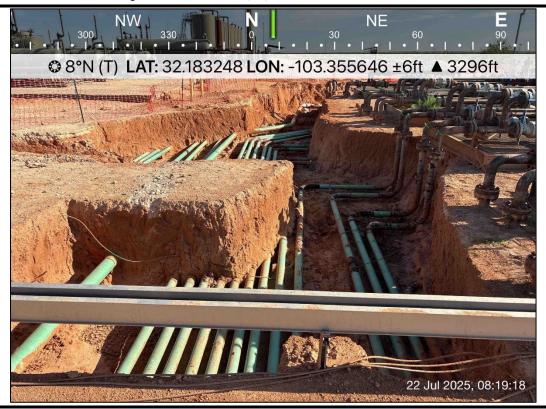


PHOTO 14: Northern view of excavation extent. 7/22/2025



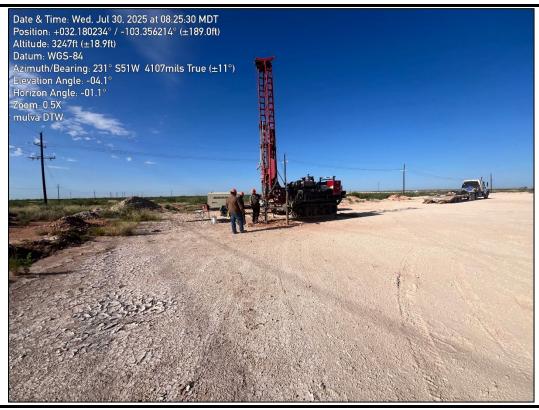


PHOTO 15: Southwest view during temporary depth to water drilling activities. 7/30/2025



PHOTO 16: Southeast view during continued excavation activities. 7/30/2025



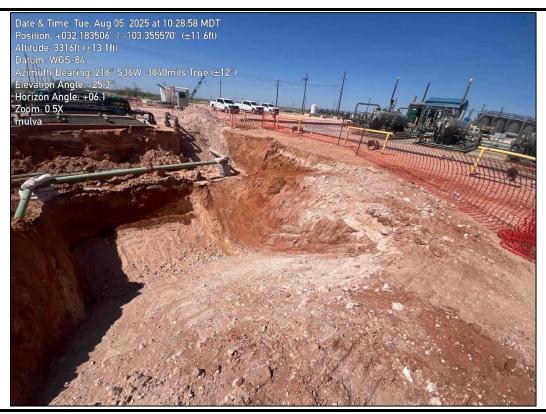


PHOTO 17: Southwest view of excavation extent. 8/5/2025



PHOTO 18: Northeast view following restoration activities. 8/5/2025





PHOTO 19: Southeast view following restoration activities. 9/10/2025



PHOTO 20: Northeast view following restoration activities. 9/10/2025

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

Phone: (505) 629-6116

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

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

QUESTIONS

Action 480374

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	480374
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509160854
Incident Name	NAPP2509160854 MULVA @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source					
Site Name	MULVA				
Date Release Discovered	03/21/2025				
Surface Owner	Private				

Sampling Event General Information							
Please answer all the questions in this group.							
What is the sampling surface area in square feet	1,200						
What is the estimated number of samples that will be gathered	10						
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/03/2025						
Time sampling will commence	08:00 AM						
Please provide any information necessary for observers to contact samplers	Contact Gilbert Moreno (Earth Systems) (832) 541-7719						
Please provide any information necessary for navigation to sampling site	32.18355, -103.355595						

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CONDITIONS

Action 480374

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	480374
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sworthe	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.	6/30/2025
sworthe	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	6/30/2025

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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 484750

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	484750
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509160854
Incident Name	NAPP2509160854 MULVA @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	MULVA
Date Release Discovered	03/21/2025
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,200	
What is the estimated number of samples that will be gathered	10	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/17/2025	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Contact: Gilbert Moreno (832) 541-7719	
Please provide any information necessary for navigation to sampling site	Site GPS: 32.18355, -103.355595 Check in with either SCM OR CIVITAS REP upon arrival.	

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 484750

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	484750
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sworther	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.	7/14/2025
sworther	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/14/2025

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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 486420

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	486420
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509160854
Incident Name	NAPP2509160854 MULVA @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	MULVA
Date Release Discovered	03/21/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,200
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/22/2025
Time sampling will commence	10:30 AM
Please provide any information necessary for observers to contact samplers	Please contact: Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to sampling site	Site GPS: 32.18355, -103.355595 Once on location, please contact Gilbert Moreno.

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 486420

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	486420
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sworther	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.	7/18/2025
sworther	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/18/2025

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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 489306

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	489306
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509160854
Incident Name	NAPP2509160854 MULVA @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	MULVA
Date Release Discovered	03/21/2025
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	400	
What is the estimated number of samples that will be gathered	3	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2025	
Time sampling will commence	08:00 AM	
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 541-7719	
Please provide any information necessary for navigation to sampling site	32.18355, -103.355595	

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 489306

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	489306
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sworthen	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.	7/28/2025
sworthen	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/28/2025

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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 491495

Qi	UESTIONS	
Operator: SCM Operations, LLC 5775 N Sam Houston Pkwy W		OGRID: 330368 Action Number:
Houston, TX 77086		491495
		Action Type: [NOTIFY] Notification Of Sampling (C-141N)
QUESTIONS		
Prerequisites		
Incident ID (n#)	nAPP2509160854	
Incident Name	NAPP2509160854 MU	LVA @ 0
Incident Type	Oil Release	
Incident Status	Initial C-141 Approved	
Location of Release Source	T	
Site Name	MULVA	
Date Release Discovered	03/21/2025	
Surface Owner	Private	
Sampling Event General Information Please answer all the questions in this group.		
What is the sampling surface area in square feet	400	
What is the estimated number of samples that will be gathered	2	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/05/2025	
Time sampling will commence	08:00 AM	
Warning: Notification can not be less than two business days prior to conducting final samplin	ıg.	
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 5	i41-7719
Please provide any information necessary for navigation to sampling site	32 18355 -103 35550	

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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 491495

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	491495
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sworthen	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.	8/2/2025
sworthen	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/2/2025

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/28/2025 11:16:16 AM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-7961-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 4/28/2025 11:16:16 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-7961-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	22
QC Sample Results	24
QC Association Summary	33
Lab Chronicle	39
Certification Summary	45
Method Summary	46
Sample Summary	47
Chain of Custody	48
Receipt Checklists	50

3

4

6

8

9

10

12

Te

14

Definitions/Glossary

Job ID: 890-7961-1 Client: Earth Systems Response and Restoration Project/Site: Mulva

SDG: Lea County, NM

Qualifiers

GC VOA Qualifier

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

Qualifier Description

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**

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

Percent Recovery %R 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-7961-1

Project: Mulva

Eurofins Carlsbad Job ID: 890-7961-1

Job Narrative 890-7961-1

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 4/16/2025 2:03 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 5.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-7961-1), HA-1 (890-7961-2), HA-1 (890-7961-3), HA-1 (890-7961-4), HA-1 (890-7961-5), HA-2 (890-7961-6), HA-2 (890-7961-7), HA-2 (890-7961-8), HA-2 (890-7961-9), HA-2 (890-7961-10), HA-3 (890-7961-11), HA-3 (890-7961-12), HA-4 (890-7961-13), HA-4 (890-7961-14), HA-5 (890-7961-15), HA-5 (890-7961-16), HA-6 (890-7961-17) and HA-6 (890-7961-18).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-2 (890-7961-6), HA-2 (890-7961-7), HA-2 (890-7961-8), HA-2 (890-7961-9) and HA-2 (890-7961-10). Evidence of matrix interference is present; therefore, reextraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-107945 and analytical batch 880-108056 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-1 (890-7961-1), HA-1 (890-7961-2), HA-1 (890-7961-3), HA-1 (890-7961-4) and HA-1 (890-7961-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108183 and analytical batch 880-108179 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-108180 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-108180/20).

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-3 (890-7961-11) and HA-4 (890-7961-13). 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 surrogate recovery for the blank associated with preparation batch 880-108012 and analytical batch 880-108761 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: HA-1 (890-7961-3), HA-1 (890-7961-4), HA-1 (890-7961-5), HA-2 (890-7961-6), HA-2 (890-7961-7), HA-2 (890-7961-8), HA-2 (890-7961-9), HA-2 (890-7961-10), HA-3 (890-7961-11), HA-3 (890-7961-12), HÀ-4 (890-7961-13), HÀ-4 (890-7961-14), HA-5 (890-7961-15), HA-5 (890-7961-16), HA-6 (890-7961-17) and HA-6 (890-7961-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: HA-1 (890-7961-1) and HA-1

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-7961-1

Project: Mulva

Job ID: 890-7961-1 (Continued)

Eurofins Carlsbad

(890-7961-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107982 and analytical batch 880-108122 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.

The associated samples are: HA-1 (890-7961-1), HA-1 (890-7961-2), HA-1 (890-7961-3), HA-1 (890-7961-4), HA-1 (890-7961-5), HA-2 (890-7961-6), HA-2 (890-7961-7), HA-2 (890-7961-8), (890-7960-A-51-A), (890-7960-A-51-B MS) and (890-7960-A-51-C MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107983 and analytical batch 880-108130 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.

The associated samples are: HA-2 (890-7961-9), HA-2 (890-7961-10), HA-3 (890-7961-11), HA-3 (890-7961-12), HA-4 (890-7961-14), HA-5 (890-7961-15), HA-5 (890-7961-16) and HA-6 (890-7961-17).

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

Job ID: 890-7961-1

Matrix: Solid

SDG: Lea County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-1

Client Sample ID: HA-1

Date Collected: 04/16/25 08:30 Date Received: 04/16/25 14:03

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.33		0.199		mg/Kg		04/18/25 14:50	04/19/25 15:44	100
Toluene	131		2.01		mg/Kg		04/21/25 09:09	04/21/25 20:18	1000
Ethylbenzene	29.4		0.199		mg/Kg		04/18/25 14:50	04/19/25 15:44	100
m-Xylene & p-Xylene	75.8		0.398		mg/Kg		04/18/25 14:50	04/19/25 15:44	100
o-Xylene	80.2		2.01		mg/Kg		04/21/25 09:09	04/21/25 20:18	100
Xylenes, Total	278		4.02		mg/Kg		04/21/25 09:09	04/21/25 20:18	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	338	S1+	70 - 130				04/18/25 14:50	04/19/25 15:44	10
1,4-Difluorobenzene (Surr)	96		70 - 130				04/18/25 14:50	04/19/25 15:44	10
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
	•	ics (DRO) (Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH	•	, ,,	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/27/25 02:54	
Analyte Total TPH	Result 16200	Qualifier	RL 500	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 16200	Qualifier	RL 500			<u>D</u>	Prepared Prepared		,
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 16200	Qualifier nics (DRO)	RL 500		mg/Kg			04/27/25 02:54	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 16200 sel Range Orga	Qualifier nics (DRO)	RL 500		mg/Kg		Prepared	04/27/25 02:54 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 16200 sel Range Orga Result 4340	Qualifier nics (DRO) Qualifier	RL 500		mg/Kg Unit mg/Kg		Prepared 04/17/25 16:06	04/27/25 02:54 Analyzed 04/27/25 02:54	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 16200 sel Range Orga Result 4340 11900	Qualifier nics (DRO) Qualifier	RL 500 (GC) RL 500 500		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/25 16:06 04/17/25 16:06	04/27/25 02:54 Analyzed 04/27/25 02:54 04/27/25 02:54	Dil Fa (
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 16200 sel Range Orga Result 4340 11900 <500	Qualifier nics (DRO) Qualifier	RL 500 (GC) RL 500 500 500		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/25 16:06 04/17/25 16:06	04/27/25 02:54 Analyzed 04/27/25 02:54 04/27/25 02:54	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 16200	Qualifier nics (DRO) Qualifier U Qualifier	RL 500		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/25 16:06 04/17/25 16:06 04/17/25 16:06 Prepared	04/27/25 02:54 Analyzed 04/27/25 02:54 04/27/25 02:54 04/27/25 02:54 Analyzed	Dil Fa 11 11 11 Dil Fa
Analyte	Result 16200 sel Range Orga Result 4340 11900 <500 **Recovery** 264 311	Qualifier Dics (DRO) Qualifier U Qualifier S1+ S1+	RL 500 (GC) RL 500 500 500 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/25 16:06 04/17/25 16:06 04/17/25 16:06 Prepared 04/17/25 16:06	04/27/25 02:54 Analyzed 04/27/25 02:54 04/27/25 02:54 Analyzed 04/27/25 02:54	Dil Fac 10 10 10 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 16200	Qualifier Dics (DRO) Qualifier U Qualifier S1+ S1+	RL 500 (GC) RL 500 500 500 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/17/25 16:06 04/17/25 16:06 04/17/25 16:06 Prepared 04/17/25 16:06	04/27/25 02:54 Analyzed 04/27/25 02:54 04/27/25 02:54 Analyzed 04/27/25 02:54	Dil Fac

Client Sample ID: HA-1

Date Collected: 04/16/25 08:35

Date Received: 04/16/25 14:03

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14.0		0.199		mg/Kg		04/18/25 14:50	04/19/25 16:04	100
Toluene	91.5		2.01		mg/Kg		04/21/25 09:09	04/21/25 20:38	1000
Ethylbenzene	23.6		2.01		mg/Kg		04/21/25 09:09	04/21/25 20:38	1000
m-Xylene & p-Xylene	121		4.02		mg/Kg		04/21/25 09:09	04/21/25 20:38	1000
o-Xylene	38.8		2.01		mg/Kg		04/21/25 09:09	04/21/25 20:38	1000
Xylenes, Total	160		4.02		mg/Kg		04/21/25 09:09	04/21/25 20:38	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	368	S1+	70 - 130				04/18/25 14:50	04/19/25 16:04	100

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Lab Sample ID: 890-7961-2

Matrix: Solid

Job ID: 890-7961-1

Matrix: Solid

SDG: Lea County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-2

Client Sample ID: HA-1

Date Collected: 04/16/25 08:35 Date Received: 04/16/25 14:03

Sample Depth: 1

Mothod: SW046 9024D	Volatile Organie	Compounds (CC) (C	Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89	70 - 130	04/18/25 14:50	04/19/25 16:04	100

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	289		4.02		mg/Kg	 		04/21/25 20:38	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC))					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9470	49.8	mg/Kg			04/27/25 03:09	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4650		49.8		mg/Kg		04/17/25 16:06	04/27/25 03:09	1
Diesel Range Organics (Over C10-C28)	4820		49.8		mg/Kg		04/17/25 16:06	04/27/25 03:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 16:06	04/27/25 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surroyate	70Necovery	Qualifier	Liiiits	riepaieu	Allalyzeu	DII Fac
1-Chlorooctane	153	S1+	70 - 130	04/17/25 16:06	04/27/25 03:09	1
o-Terphenyl	180	S1+	70 - 130	04/17/25 16:06	04/27/25 03:09	1
F., ., . <u>-</u> _, .,						

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10.0		mg/Kg			04/19/25 00:37	1

Client Sample ID: HA-1 Lab Sample ID: 890-7961-3 **Matrix: Solid**

Date Collected: 04/16/25 08:40 Date Received: 04/16/25 14:03

Sample Depth: 2

Analyte

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23.8		0.200		mg/Kg		04/18/25 14:50	04/19/25 16:25	100
Toluene	124		1.98		mg/Kg		04/21/25 09:09	04/21/25 20:59	1000
Ethylbenzene	26.8		1.98		mg/Kg		04/21/25 09:09	04/21/25 20:59	1000
m-Xylene & p-Xylene	128		3.97		mg/Kg		04/21/25 09:09	04/21/25 20:59	1000
o-Xylene	42.9		1.98		mg/Kg		04/21/25 09:09	04/21/25 20:59	1000
Xylenes, Total	171		3.97		mg/Kg		04/21/25 09:09	04/21/25 20:59	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	421	S1+	70 - 130				04/18/25 14:50	04/19/25 16:25	100
1,4-Difluorobenzene (Surr)	88		70 - 130				04/18/25 14:50	04/19/25 16:25	100
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	346		3.97		mg/Kg			04/21/25 20:59	1

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Analyzed

04/26/25 23:10

Prepared

RL

250

MDL Unit

mg/Kg

Result Qualifier

15000

Dil Fac

Matrix: Solid

Lab Sample ID: 890-7961-3

Lab Sample ID: 890-7961-4

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

Client Sample ID: HA-1

Date Collected: 04/16/25 08:40 Date Received: 04/16/25 14:03

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7060		250		mg/Kg		04/17/25 16:10	04/26/25 23:10	5
Diesel Range Organics (Over C10-C28)	7910		250		mg/Kg		04/17/25 16:10	04/26/25 23:10	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		04/17/25 16:10	04/26/25 23:10	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	220	S1+	70 - 130				04/17/25 16:10	04/26/25 23:10	5
o-Terphenyl	246	S1+	70 - 130				04/17/25 16:10	04/26/25 23:10	5
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: HA-1

Date Collected: 04/16/25 08:45

Date Received: 04/16/25 14:03

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.8		0.200		mg/Kg		04/18/25 14:50	04/19/25 16:45	100
Toluene	134		2.02		mg/Kg		04/21/25 12:46	04/22/25 05:01	1000
Ethylbenzene	57.9		2.02		mg/Kg		04/21/25 12:46	04/22/25 05:01	1000
m-Xylene & p-Xylene	152		4.03		mg/Kg		04/21/25 12:46	04/22/25 05:01	1000
o-Xylene	177		2.02		mg/Kg		04/21/25 12:46	04/22/25 05:01	1000
Xylenes, Total	329		4.03		mg/Kg		04/21/25 12:46	04/22/25 05:01	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	410	S1+	70 - 130				04/18/25 14:50	04/19/25 16:45	100
1,4-Difluorobenzene (Surr)	105		70 - 130				04/18/25 14:50	04/19/25 16:45	100
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	540		4.03		mg/Kg			04/22/25 05:01	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14500		249		mg/Kg			04/26/25 23:25	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6180		249		mg/Kg		04/17/25 16:10	04/26/25 23:25	5
Diesel Range Organics (Over C10-C28)	8360		249		mg/Kg		04/17/25 16:10	04/26/25 23:25	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		04/17/25 16:10	04/26/25 23:25	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	222	S1+	70 - 130				04/17/25 16:10	04/26/25 23:25	5
o-Terphenyl	252	S1+	70 - 130				04/17/25 16:10	04/26/25 23:25	5

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7961-4

Date Collected: 04/16/25 08:45 Date Received: 04/16/25 14:03

Matrix: Solid

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion C	hromatography - Solul	ble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133	9.92	mg/Kg	_		04/19/25 00:52	1

Client Sample ID: HA-1 Lab Sample ID: 890-7961-5

Date Collected: 04/16/25 08:50 Date Received: 04/16/25 14:03 Matrix: Solid

Sample Depth: 4

0.200 2.00 2.00 3.99 2.00 3.99		mg/Kg mg/Kg mg/Kg		04/18/25 14:50 04/21/25 12:46 04/21/25 12:46	04/19/25 17:06 04/22/25 05:21	100
2.00 3.99 2.00		mg/Kg				100
3.99 2.00				04/21/25 12:46	04/00/05 05:04	
2.00		ma/Ka			04/22/25 05:21	100
				04/21/25 12:46	04/22/25 05:21	100
3 99		mg/Kg		04/21/25 12:46	04/22/25 05:21	100
3.50		mg/Kg		04/21/25 12:46	04/22/25 05:21	100
ualifier Limits				Prepared	Analyzed	Dil Fa
1+ 70 - 130				04/18/25 14:50	04/19/25 17:06	10
70 - 130				04/18/25 14:50	04/19/25 17:06	10
ation						
ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
3.99		mg/Kg			04/22/25 05:21	
ualifier RL 250	MDL	Mg/Kg	D	Prepared	Analyzed 04/26/25 23:40	Dil Fa
		5 5				
	MDI	Unit	n	Prepared	Analyzod	Dil Fa
	WIDE		_ =			Dil Fa
230		mg/rtg		04/11/23 10:10	04/20/23 23.40	
250		mg/Kg		04/17/25 16:10	04/26/25 23:40	
250		mg/Kg		04/17/25 16:10	04/26/25 23:40	
ualifier Limits				Prepared	Analyzed	Dil Fa
1+ 70 - 130				04/17/25 16:10	04/26/25 23:40	
1+ 70 - 130				04/17/25 16:10	04/26/25 23:40	
	### ##################################	### ##################################	### ##################################	1	1+ 70 - 130 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 14:50 04/18/25 04/18/25 04/18/25 04/18/25 04/18/25 04/18/25 04/18/2	1+ 70 - 130

04/19/25 01:00

10.0

mg/Kg

135

Chloride

Client: Earth Systems Response and Restoration

Project/Site: Mulva

SDG: Lea County, NM

Job ID: 890-7961-1

Client Sample ID: HA-2

Date Collected: 04/16/25 08:55 Date Received: 04/16/25 14:03

Sample Depth: 0.5

Lab Sample ID: 890-7961-6

04/17/25 16:10

04/26/25 23:54

Matrix: Solid

Method: SW846 8021B - Vo	latile Organic Compounds (GC	;)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.62	0.200	mg/K	 g	04/18/25 15:11	04/19/25 14:52	100
Toluene	43.4	2.00	mg/K	g	04/21/25 12:46	04/22/25 05:42	1000
Ethylbenzene	30.6	0.200	mg/K	g	04/18/25 15:11	04/19/25 14:52	100
m-Xylene & p-Xylene	83.2	4.01	mg/K	g	04/21/25 12:46	04/22/25 05:42	1000
o-Xylene	38.5	0.200	mg/K	g	04/18/25 15:11	04/19/25 14:52	100
Xylenes, Total	118	4.01	mg/K	g	04/21/25 12:46	04/22/25 05:42	1000
Surrogate	%Recovery Qualifier	l imite			Prenared	Analyzed	Dil Fac

Surrogate Limits 70 - 130 04/18/25 15:11 4-Bromofluorobenzene (Surr) 286 S1+ 04/19/25 14:52 100 1,4-Difluorobenzene (Surr) 110 70 - 130 04/18/25 15:11 04/19/25 14:52 100

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Total BTEX** 4.01 mg/Kg 04/22/25 05:42 198

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 498 04/26/25 23:54 **Total TPH** 21200 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Dil Fac Analyte RL Unit D Prepared Analyzed **Gasoline Range Organics** 5020 498 mg/Kg 04/17/25 16:10 04/26/25 23:54 (GRO)-C6-C10 **Diesel Range Organics (Over** 16200 498 mg/Kg 04/17/25 16:10 04/26/25 23:54 10

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 04/17/25 16:10 314 1-Chlorooctane S1+ 70 - 130 04/26/25 23:54 10 422 S1+ 70 - 130 04/17/25 16:10 04/26/25 23:54 o-Terphenyl 10

498

mg/Kg

<498 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit D Dil Fac RL Prepared Analyzed 10.1 Chloride 148 mg/Kg 04/19/25 01:07

Client Sample ID: HA-2 Lab Sample ID: 890-7961-7

Date Collected: 04/16/25 09:00 Date Received: 04/16/25 14:03

Oil Range Organics (Over C28-C36)

Sample Depth: 1

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.8		0.200		mg/Kg		04/18/25 15:11	04/19/25 15:12	100
Toluene	83.9		1.99		mg/Kg		04/21/25 12:46	04/22/25 06:02	1000
Ethylbenzene	35.2		1.99		mg/Kg		04/21/25 12:46	04/22/25 06:02	1000
m-Xylene & p-Xylene	95.2		3.98		mg/Kg		04/21/25 12:46	04/22/25 06:02	1000
o-Xylene	34.8		1.99		mg/Kg		04/21/25 12:46	04/22/25 06:02	1000
Xylenes, Total	130		3.98		mg/Kg		04/21/25 12:46	04/22/25 06:02	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	293	S1+	70 - 130				04/18/25 15:11	04/19/25 15:12	100

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10

Matrix: Solid

Client: Earth Systems Response and Restoration

Project/Site: Mulva

SDG: Lea County, NM

Job ID: 890-7961-1

Client Sample ID: HA-2 Lab Sample ID: 890-7961-7 Date Collected: 04/16/25 09:00 Matrix: Solid

Date Received: 04/16/25 14:03

Sample Depth: 1

Method: SW846 8021B - Volati	e Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	04/18/25 15:11	04/19/25 15:12	100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	263		3.98		mg/Kg			04/22/25 06:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15000		249		mg/Kg			04/27/25 00:09	1

Method: SW846 8015B	NM - Diesel Range	Organics (DRO) (GC)
momounous official	Tim Diocol Hange	J. ga (21.10)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5620	249	mg/Kg		04/17/25 16:10	04/27/25 00:09	5
Diesel Range Organics (Over C10-C28)	9330	249	mg/Kg		04/17/25 16:10	04/27/25 00:09	5
Oil Range Organics (Over C28-C36)	<249 U	249	mg/Kg		04/17/25 16:10	04/27/25 00:09	5
	0.7						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	220	S1+	70 - 130	04/17/25 16:10	04/27/25 00:09	5
o-Terphenyl	280	S1+	70 - 130	04/17/25 16:10	04/27/25 00:09	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143	9.94	mg/Kg			04/19/25 01:15	1

Client Sample ID: HA-2 Lab Sample ID: 890-7961-8 Matrix: Solid

Date Collected: 04/16/25 09:05 Date Received: 04/16/25 14:03

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)
method: 011040 0021B - Tolathe Organic Compounds (CO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10.8		0.202		mg/Kg		04/18/25 15:11	04/19/25 15:33	100
Toluene	112		1.99		mg/Kg		04/21/25 12:46	04/22/25 06:23	1000
Ethylbenzene	44.7		1.99		mg/Kg		04/21/25 12:46	04/22/25 06:23	1000
m-Xylene & p-Xylene	120		3.98		mg/Kg		04/21/25 12:46	04/22/25 06:23	1000
o-Xylene	43.0		1.99		mg/Kg		04/21/25 12:46	04/22/25 06:23	1000
Xylenes, Total	163		3.98		mg/Kg		04/21/25 12:46	04/22/25 06:23	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	241	S1+	70 - 130				04/18/25 15:11	04/19/25 15:33	100

4-Bromofluorobenzene (Surr)	241 S1+	70 - 130	04/18/25 15:11	04/19/25 15:33	100
1,4-Difluorobenzene (Surr)	117	70 - 130	04/18/25 15:11	04/19/25 15:33	100
_					

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	331		3.98		mg/Kg			04/22/25 06:23	1

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

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	16600		250	r	mg/Kg			04/27/25 00:24	1	

Client: Earth Systems Response and Restoration

Project/Site: Mulva

SDG: Lea County, NM

Client Sample ID: HA-2

Date Collected: 04/16/25 09:05 Date Received: 04/16/25 14:03

Sample Depth: 2

Lab Sample ID: 890-7961-8

Matrix: Solid

Job ID: 890-7961-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7090		250		mg/Kg		04/17/25 16:10	04/27/25 00:24	5
Diesel Range Organics (Over	9540		250		mg/Kg		04/17/25 16:10	04/27/25 00:24	5
C10-C28) Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		04/17/25 16:10	04/27/25 00:24	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	231	S1+	70 - 130				04/17/25 16:10	04/27/25 00:24	5
o-Terphenyl	273	S1+	70 - 130				04/17/25 16:10	04/27/25 00:24	5
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte									

Lab Sample ID: 890-7961-9 **Client Sample ID: HA-2** Date Collected: 04/16/25 09:10 Matrix: Solid

Date Received: 04/16/25 14:03

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	34.9		0.202		mg/Kg		04/18/25 15:11	04/19/25 15:53	10
Toluene	172		2.00		mg/Kg		04/21/25 12:46	04/22/25 06:43	100
Ethylbenzene	69.5		2.00		mg/Kg		04/21/25 12:46	04/22/25 06:43	100
m-Xylene & p-Xylene	175		3.99		mg/Kg		04/21/25 12:46	04/22/25 06:43	100
o-Xylene	58.2		2.00		mg/Kg		04/21/25 12:46	04/22/25 06:43	100
Xylenes, Total	233		3.99		mg/Kg		04/21/25 12:46	04/22/25 06:43	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	323	S1+	70 - 130				04/18/25 15:11	04/19/25 15:53	10
1,4-Difluorobenzene (Surr)	95		70 - 130				04/18/25 15:11	04/19/25 15:53	10
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	510		3.99		mg/Kg			04/22/25 06:43	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	17300		249		mg/Kg			04/27/25 00:54	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	8480		249		mg/Kg		04/17/25 16:10	04/27/25 00:54	
Diesel Range Organics (Over C10-C28)	8790		249		mg/Kg		04/17/25 16:10	04/27/25 00:54	
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		04/17/25 16:10	04/27/25 00:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	231	S1+	70 - 130				04/17/25 16:10	04/27/25 00:54	

Client: Earth Systems Response and Restoration

Project/Site: Mulva

SDG: Lea County, NM

Job ID: 890-7961-1

Matrix: Solid

Lab Sample ID: 890-7961-9

Client Sample ID: HA-2

Date Collected: 04/16/25 09:10 D

Pate Received: 04/16/25 14:03	
Sample Depth: 3	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit Analyzed Dil Fac D Prepared 10.0 04/19/25 08:20 Chloride 215 mg/Kg

Client Sample ID: HA-2 Lab Sample ID: 890-7961-10 **Matrix: Solid**

Date Collected: 04/16/25 09:15 Date Received: 04/16/25 14:03

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	29.1		0.202		mg/Kg		04/18/25 15:11	04/19/25 16:14	100
Toluene	121		2.00		mg/Kg		04/21/25 12:46	04/22/25 07:04	1000
Ethylbenzene	40.8		2.00		mg/Kg		04/21/25 12:46	04/22/25 07:04	1000
m-Xylene & p-Xylene	110		4.01		mg/Kg		04/21/25 12:46	04/22/25 07:04	1000
o-Xylene	40.8		2.00		mg/Kg		04/21/25 12:46	04/22/25 07:04	1000
Xylenes, Total	151		4.01		mg/Kg		04/21/25 12:46	04/22/25 07:04	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	276	S1+	70 - 130				04/18/25 15:11	04/19/25 16:14	100
1,4-Difluorobenzene (Surr)	97		70 ₋ 130				04/18/25 15:11	04/19/25 16:14	100

Method. TAL SOP Total BTEX - Total BTEX Calculation								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	342	4.01	mg/Kg			04/22/25 07:04	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	13500	250	mg/Kg			04/27/25 01:08	1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6610		250		mg/Kg		04/17/25 16:10	04/27/25 01:08	5
Diesel Range Organics (Over C10-C28)	6860		250		mg/Kg		04/17/25 16:10	04/27/25 01:08	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		04/17/25 16:10	04/27/25 01:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	206	S1+	70 - 130				04/17/25 16:10	04/27/25 01:08	5
o-Terphenyl	228	S1+	70 - 130				04/17/25 16:10	04/27/25 01:08	5

Method: EPA 300.0 - Anions, Ion C)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		9.96		mg/Kg			04/19/25 08:27	1

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 SDG: Lea County, NM

Project/Site: Mulva

Lab Sample ID: 890-7961-11

Date Collected: 04/16/25 09:20 Date Received: 04/16/25 14:03

Client Sample ID: HA-3

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.4		2.01		mg/Kg		04/21/25 09:35	04/22/25 04:30	1000
Toluene	125		2.01		mg/Kg		04/21/25 09:35	04/22/25 04:30	1000
Ethylbenzene	51.0		2.01		mg/Kg		04/21/25 09:35	04/22/25 04:30	1000
m-Xylene & p-Xylene	167		4.02		mg/Kg		04/21/25 09:35	04/22/25 04:30	1000
o-Xylene	57.9		2.01		mg/Kg		04/21/25 09:35	04/22/25 04:30	1000
Xylenes, Total	225		4.02		mg/Kg		04/21/25 09:35	04/22/25 04:30	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				04/21/25 09:35	04/22/25 04:30	1000
1,4-Difluorobenzene (Surr)	106		70 - 130				04/21/25 09:35	04/22/25 04:30	1000
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	414		4.02		mg/Kg			04/22/25 04:30	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (C	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32700		999		mg/Kg			04/27/25 01:24	1
	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	8640		999		mg/Kg		04/17/25 16:10	04/27/25 01:24	20
Diesel Range Organics (Over C10-C28)	24100		999		mg/Kg		04/17/25 16:10	04/27/25 01:24	20
Oil Range Organics (Over C28-C36)	<999	U	999		mg/Kg		04/17/25 16:10	04/27/25 01:24	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	410	S1+	70 - 130				04/17/25 16:10	04/27/25 01:24	20
o-Terphenyl	570	S1+	70 - 130				04/17/25 16:10	04/27/25 01:24	20
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e						

Client Sample ID: HA-3

Lab Sample ID: 890-7961-12

04/19/25 08:34

Date Collected: 04/16/25 09:25 Date Received: 04/16/25 14:03

139

Matrix: Solid

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.06		1.99		mg/Kg		04/21/25 09:35	04/22/25 04:51	1000
Toluene	81.5		1.99		mg/Kg		04/21/25 09:35	04/22/25 04:51	1000
Ethylbenzene	31.9		1.99		mg/Kg		04/21/25 09:35	04/22/25 04:51	1000
m-Xylene & p-Xylene	106		3.98		mg/Kg		04/21/25 09:35	04/22/25 04:51	1000
o-Xylene	40.2		1.99		mg/Kg		04/21/25 09:35	04/22/25 04:51	1000
Xylenes, Total	146		3.98		mg/Kg		04/21/25 09:35	04/22/25 04:51	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/21/25 09:35	04/22/25 04:51	1000

9.94

mg/Kg

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

Lab Sample ID: 890-7961-12

Matrix: Solid

Date Received: 04/16/25 14:03 Sample Depth: 1

Client Sample ID: HA-3

Date Collected: 04/16/25 09:25

Method: SW846 8021B	- Volatile Organio	Compounds	(GC)	(Continued)
Mothiod. Offo-to cor ib	Tolutile Organie	Compounds	(–	(Gontiniaca)

Surrogate	%Recovery Qual	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	04/21/25 09:35	04/22/25 04:51	1000

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	268		3.98		mg/Kg			04/22/25 04:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	11500	249	mg/Kg			04/27/25 01:39	1

Analyte	Result (Qualifier	RL M	IDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3640		249	mg/Kg		04/17/25 16:10	04/27/25 01:39	5
Diesel Range Organics (Over C10-C28)	7890		249	mg/Kg		04/17/25 16:10	04/27/25 01:39	5
Oil Range Organics (Over C28-C36)	<249 l	J	249	mg/Kg		04/17/25 16:10	04/27/25 01:39	5

ourroguto	7071000107	Quanno		rrepared	7 mary 2 ca	D uo
1-Chlorooctane	193	S1+	70 - 130	04/17/25 16:10	04/27/25 01:39	5
o-Terphenyl	257	S1+	70 - 130	04/17/25 16:10	04/27/25 01:39	5
Mothod: EDA 200 0 Aniono Ion C	hromotogran	hy Coluble				

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143	9.92	mg/Kg			04/19/25 08:41	1

Client Sample ID: HA-4 Lab Sample ID: 890-7961-13 Matrix: Solid

Date Collected: 04/16/25 09:30 Date Received: 04/16/25 14:03

Sample Depth: 0.5

Analyte

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	44.2		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:11	1000
Toluene	249		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:11	1000
Ethylbenzene	76.4		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:11	1000
m-Xylene & p-Xylene	240		3.96		mg/Kg		04/21/25 09:35	04/22/25 05:11	1000
o-Xylene	88.6		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:11	1000
Xylenes, Total	329		3.96		mg/Kg		04/21/25 09:35	04/22/25 05:11	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				04/21/25 09:35	04/22/25 05:11	1000
1,4-Difluorobenzene (Surr)	110		70 - 130				04/21/25 09:35	04/22/25 05:11	1000
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	698		3.96		mg/Kg			04/22/25 05:11	1

Eurofins Carlsbad

Analyzed

04/27/25 01:55

Prepared

RL

997

MDL Unit

mg/Kg

Result Qualifier

33400

Dil Fac

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 SDG: Lea County, NM

Project/Site: Mulva

Lab Sample ID: 890-7961-13

Date Collected: 04/16/25 09:30 Date Received: 04/16/25 14:03

Client Sample ID: HA-4

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	11900		997		mg/Kg		04/17/25 16:10	04/27/25 01:55	20
Diesel Range Organics (Over C10-C28)	21500		997		mg/Kg		04/17/25 16:10	04/27/25 01:55	20
Oil Range Organics (Over C28-C36)	<997	U	997		mg/Kg		04/17/25 16:10	04/27/25 01:55	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	403	S1+	70 - 130				04/17/25 16:10	04/27/25 01:55	20
o-Terphenyl	525	S1+	70 - 130				04/17/25 16:10	04/27/25 01:55	20
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: HA-4

Lab Sample ID: 890-7961-14

Matrix: Solid

Date Collected: 04/16/25 09:35 Date Received: 04/16/25 14:03

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24.6		2.00		mg/Kg		04/21/25 09:35	04/22/25 05:32	1000
Toluene	151		2.00		mg/Kg		04/21/25 09:35	04/22/25 05:32	1000
Ethylbenzene	46.0		2.00		mg/Kg		04/21/25 09:35	04/22/25 05:32	1000
m-Xylene & p-Xylene	148		3.99		mg/Kg		04/21/25 09:35	04/22/25 05:32	1000
o-Xylene	57.2		2.00		mg/Kg		04/21/25 09:35	04/22/25 05:32	100
Xylenes, Total	205		3.99		mg/Kg		04/21/25 09:35	04/22/25 05:32	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	124		70 - 130				04/21/25 09:35	04/22/25 05:32	100
1,4-Difluorobenzene (Surr)	107		70 - 130				04/21/25 09:35	04/22/25 05:32	100
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	427		3.99		mg/Kg			04/22/25 05:32	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	17100		250		mg/Kg			04/27/25 02:09	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	7730		250		mg/Kg		04/17/25 16:10	04/27/25 02:09	
Diesel Range Organics (Over C10-C28)	9410		250		mg/Kg		04/17/25 16:10	04/27/25 02:09	
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		04/17/25 16:10	04/27/25 02:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	232	S1+	70 - 130				04/17/25 16:10	04/27/25 02:09	

Matrix: Solid

Lab Sample ID: 890-7961-14

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: HA-4

Date Collected: 04/16/25 09:35 Date Received: 04/16/25 14:03

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		10.0		mg/Kg			04/19/25 09:10	1

Client Sample ID: HA-5 Lab Sample ID: 890-7961-15 **Matrix: Solid**

Date Collected: 04/16/25 09:40 Date Received: 04/16/25 14:03

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28.2		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:52	1000
Toluene	164		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:52	1000
Ethylbenzene	55.1		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:52	1000
m-Xylene & p-Xylene	174		3.97		mg/Kg		04/21/25 09:35	04/22/25 05:52	1000
o-Xylene	62.3		1.98		mg/Kg		04/21/25 09:35	04/22/25 05:52	1000
Xylenes, Total	236		3.97		mg/Kg		04/21/25 09:35	04/22/25 05:52	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				04/21/25 09:35	04/22/25 05:52	100
1,4-Difluorobenzene (Surr)	104		70 - 130				04/21/25 09:35	04/22/25 05:52	100
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total BTEX	484	<u>·</u>	3.97	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/22/25 05:52	
Analyte Total BTEX Method: SW846 8015 NM - Diese	484 el Range Organ	ics (DRO) (3.97 GC)		mg/Kg		<u> </u>	04/22/25 05:52	
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	484 el Range Organ	<u>·</u>	3.97			<u>D</u>	Prepared Prepared		Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Range Organ Result 37200 sel Range Orga	ics (DRO) (3.97 GC) RL 994 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	04/22/25 05:52 Analyzed 04/27/25 02:24 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Range Organ Result 37200 sel Range Orga	Qualifier	3.97 GC) RL 994 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/22/25 05:52 Analyzed 04/27/25 02:24	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 37200 sel Range Orga Result	Qualifier	3.97 GC) RL 994 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	04/22/25 05:52 Analyzed 04/27/25 02:24 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 37200 sel Range Orga Result 10300	Qualifier nics (DRO) Qualifier	3.97 GC) RL 994 (GC) RL 994	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 04/17/25 16:10	04/22/25 05:52 Analyzed 04/27/25 02:24 Analyzed 04/27/25 02:24	Dil Fa Dil Fa 2
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	el Range Organ Result 37200 sel Range Orga Result 10300 26900	ics (DRO) (Qualifier nics (DRO) Qualifier	3.97 GC) RL 994 (GC) RL 994 994	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 04/17/25 16:10 04/17/25 16:10	04/22/25 05:52 Analyzed 04/27/25 02:24 Analyzed 04/27/25 02:24 04/27/25 02:24	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	### ARA #### ARA ### ARA #### ARA ########	ics (DRO) (Qualifier nics (DRO) Qualifier	3.97 GC) RL 994 (GC) RL 994 994	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 04/17/25 16:10 04/17/25 16:10	04/22/25 05:52 Analyzed 04/27/25 02:24 Analyzed 04/27/25 02:24 04/27/25 02:24	Dil Fa Dil Fa 2 2

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Analyzed 04/19/25 09:17

Result Qualifier

87.1

RL

10.0

MDL Unit

mg/Kg

D

Prepared

Dil Fac

Analyte

Chloride

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-16

Matrix: Solid

Job ID: 890-7961-1

SDG: Lea County, NM

Client Sample ID: HA-5 Date Collected: 04/16/25 09:45

Date Received: 04/16/25 14:03

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28.7		1.99		mg/Kg		04/21/25 09:35	04/22/25 06:13	1000
Toluene	184		1.99		mg/Kg		04/21/25 09:35	04/22/25 06:13	1000
Ethylbenzene	57.3		1.99		mg/Kg		04/21/25 09:35	04/22/25 06:13	1000
m-Xylene & p-Xylene	182		3.98		mg/Kg		04/21/25 09:35	04/22/25 06:13	1000
o-Xylene	62.4		1.99		mg/Kg		04/21/25 09:35	04/22/25 06:13	1000
Xylenes, Total	244		3.98		mg/Kg		04/21/25 09:35	04/22/25 06:13	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	123		70 - 130				04/21/25 09:35	04/22/25 06:13	100
1,4-Difluorobenzene (Surr)	105		70 - 130				04/21/25 09:35	04/22/25 06:13	100
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	514		3.98		mg/Kg			04/22/25 06:13	•
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	15000		249		mg/Kg			04/27/25 02:39	•
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	6840		249		mg/Kg		04/17/25 16:10	04/27/25 02:39	
Diesel Range Organics (Over C10-C28)	8170		249		mg/Kg		04/17/25 16:10	04/27/25 02:39	
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		04/17/25 16:10	04/27/25 02:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	227	S1+	70 - 130				04/17/25 16:10	04/27/25 02:39	
o-Terphenyl	261	S1+	70 - 130				04/17/25 16:10	04/27/25 02:39	,
Method: EPA 300.0 - Anions, Ion	• •	•	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	111		10.1		mg/Kg			04/19/25 09:24	•

Client Sample ID: HA-6

Date Collected: 04/16/25 09:50

Date Received: 04/16/25 14:03 Sample Depth: 0.5

Lab	Sample	ID:	890-7961-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14.5		1.99		mg/Kg		04/21/25 09:09	04/21/25 21:19	1000
Toluene	142		1.99		mg/Kg		04/21/25 09:09	04/21/25 21:19	1000
Ethylbenzene	38.8		1.99		mg/Kg		04/21/25 09:09	04/21/25 21:19	1000
m-Xylene & p-Xylene	166		3.98		mg/Kg		04/21/25 09:09	04/21/25 21:19	1000
o-Xylene	71.9		1.99		mg/Kg		04/21/25 09:09	04/21/25 21:19	1000
Xylenes, Total	238		3.98		mg/Kg		04/21/25 09:09	04/21/25 21:19	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/21/25 09:09	04/21/25 21:19	1000

Job ID: 890-7961-1

SDG: Lea County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-17

Client Sample ID: HA-6

Date Collected: 04/16/25 09:50 Date Received: 04/16/25 14:03

Sample Depth: 0.5

Matrix: Solid

04/27/25 02:54

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 04/21/25 09:09 1,4-Difluorobenzene (Surr) 04/21/25 21:19 1000

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 3.98 04/21/25 21:19 **Total BTEX** 433 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Total TPH 37100 993 04/27/25 02:54 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 993 mg/Kg 04/17/25 16:10 **Gasoline Range Organics** 12500 04/27/25 02:54 20 (GRO)-C6-C10 **Diesel Range Organics (Over** 24600 993 04/17/25 16:10 04/27/25 02:54 20 mg/Kg C10-C28)

Oil Range Organics (Over C28-C36)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 477 S1+ 70 - 130 04/17/25 16:10 04/27/25 02:54 20

993

mg/Kg

04/17/25 16:10

549 S1+ 70 - 130

<993 U

04/27/25 02:54 04/17/25 16:10 20 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 9.96 04/19/25 09:32 Chloride 115 mg/Kg

Client Sample ID: HA-6 Lab Sample ID: 890-7961-18 **Matrix: Solid**

Date Collected: 04/16/25 09:55 Date Received: 04/16/25 14:03

Sample Depth: 1

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

Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Benzene 7.01 2.00 mg/Kg 04/21/25 09:09 04/21/25 21:39 1000 2.00 04/21/25 09:09 04/21/25 21:39 1000 mg/Kg **Toluene** 88.7 2.00 04/21/25 09:09 04/21/25 21:39 1000 Ethylbenzene 21.1 mg/Kg 4.00 04/21/25 21:39 04/21/25 09:09 1000 m-Xylene & p-Xylene mg/Kg 111 o-Xylene 37.2 2.00 mg/Kg 04/21/25 09:09 04/21/25 21:39 1000 4.00 mg/Kg 04/21/25 09:09 04/21/25 21:39 1000 **Xylenes, Total** 148

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 102 04/21/25 09:09 04/21/25 21:39 1000 1,4-Difluorobenzene (Surr) 83 70 - 130 04/21/25 09:09 04/21/25 21:39 1000

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Dil Fac 4.00 **Total BTEX** 265 mg/Kg 04/21/25 21:39

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 14000 250 04/27/25 03:09 mg/Kg

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20

Matrix: Solid

Lab Sample ID: 890-7961-18

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: HA-6

Date Collected: 04/16/25 09:55 Date Received: 04/16/25 14:03

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5920		250		mg/Kg		04/17/25 16:10	04/27/25 03:09	5
Diesel Range Organics (Over C10-C28)	8060		250		mg/Kg		04/17/25 16:10	04/27/25 03:09	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		04/17/25 16:10	04/27/25 03:09	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	219	S1+	70 - 130				04/17/25 16:10	04/27/25 03:09	5
o-Terphenyl	254	S1+	70 - 130				04/17/25 16:10	04/27/25 03:09	5
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7961-1	HA-1	338 S1+	96	
890-7961-2	HA-1	368 S1+	89	
890-7961-3	HA-1	421 S1+	88	
890-7961-4	HA-1	410 S1+	105	
890-7961-5	HA-1	412 S1+	91	
890-7961-6	HA-2	286 S1+	110	
890-7961-7	HA-2	293 S1+	98	
890-7961-8	HA-2	241 S1+	117	
890-7961-9	HA-2	323 S1+	95	
890-7961-10	HA-2	276 S1+	97	
890-7961-11	HA-3	138 S1+	106	
890-7961-12	HA-3	119	103	
890-7961-13	HA-4	132 S1+	110	
890-7961-14	HA-4	124	107	
890-7961-15	HA-5	115	104	
890-7961-16	HA-5	123	105	
890-7961-17	HA-6	101	73	
890-7961-18	HA-6	102	83	
LCS 880-107945/1-A	Lab Control Sample	97	110	
LCS 880-108025/1-A	Lab Control Sample	104	105	
LCS 880-108183/1-A	Lab Control Sample	118	106	
LCS 880-108198/1-A	Lab Control Sample	97	100	
LCS 880-108219/1-A	Lab Control Sample	107	112	
LCSD 880-107945/2-A	Lab Control Sample Dup	85	108	
LCSD 880-108025/2-A	Lab Control Sample Dup	103	98	
LCSD 880-108183/2-A	Lab Control Sample Dup	125	103	
LCSD 880-108198/2-A	Lab Control Sample Dup	99	99	
LCSD 880-108219/2-A	Lab Control Sample Dup	119	106	
MB 880-107945/5-A	Method Blank	97	70	
MB 880-108022/5-A	Method Blank	85	96	
MB 880-108025/5-A	Method Blank	84	96	
MB 880-108028/5-A	Method Blank	79	93	
MB 880-108124/5-A	Method Blank	97	74	
MB 880-108140/5-A	Method Blank	98	93	
MB 880-108183/5-A	Method Blank	178 S1+	97	
MB 880-108198/5-A	Method Blank	102	94	
			· · · · · · · · · · · · · · · · · · ·	

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)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7961-1	HA-1	264 S1+	311 S1+	
890-7961-2	HA-1	153 S1+	180 S1+	

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1

Project/Site: Mulva

SDG: Lea County, NM

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7961-3	HA-1	220 S1+	246 S1+	
890-7961-4	HA-1	222 S1+	252 S1+	
890-7961-5	HA-1	219 S1+	268 S1+	
890-7961-6	HA-2	314 S1+	422 S1+	
890-7961-7	HA-2	220 S1+	280 S1+	
890-7961-8	HA-2	231 S1+	273 S1+	
890-7961-9	HA-2	231 S1+	260 S1+	
890-7961-10	HA-2	206 S1+	228 S1+	
890-7961-11	HA-3	410 S1+	570 S1+	
890-7961-12	HA-3	193 S1+	257 S1+	
890-7961-13	HA-4	403 S1+	525 S1+	
890-7961-14	HA-4	232 S1+	274 S1+	
890-7961-15	HA-5	421 S1+	614 S1+	
890-7961-16	HA-5	227 S1+	261 S1+	
890-7961-17	HA-6	477 S1+	549 S1+	
890-7961-18	HA-6	219 S1+	254 S1+	
LCS 880-108011/2-A	Lab Control Sample	107	104	
LCS 880-108012/2-A	Lab Control Sample	105	101	
LCSD 880-108011/3-A	Lab Control Sample Dup	113	107	
LCSD 880-108012/3-A	Lab Control Sample Dup	113	110	
	Method Blank	126	128	
MB 880-108011/1-A			165 S1+	

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: Mulva

MB MB

Job ID: 890-7961-1 SDG: Lea County, NM

Prep Type: Total/NA

Prep Batch: 107945

09:01 09:01

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Dil Fac

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107945/5-A **Matrix: Solid**

Analysis Batch: 108056

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/25 10:52	04/19/25 09:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/25 10:52	04/19/25 09:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/25 10:52	04/19/25 09:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/25 10:52	04/19/25 09:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/25 10:52	04/19/25 09:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/25 10:52	04/19/25 09:01	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	97	70 - 130	04/17/25 10:52	04/19/25 09:0
1,4-Difluorobenzene (Surr)	70	70 - 130	04/17/25 10:52	04/19/25 09:0

Lab Sample ID: LCS 880-107945/1-A

Matrix: Solid

Analysis Batch: 108056							Prep Bate	h: 107945
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1159		mg/Kg		116	70 - 130	
Toluene	0.100	0.1095		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	

LCS LCS %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 97 110 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCSD 880-107945/2-A

Matrix: Solid

Analysis Batch: 108056							Prep Batch: 107945				
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.1150		mg/Kg		115	70 - 130	1	35		
Toluene	0.100	0.1069		mg/Kg		107	70 - 130	2	35		
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	4	35		
m-Xylene & p-Xylene	0.200	0.1743		mg/Kg		87	70 - 130	6	35		
o-Xylene	0.100	0.09618		mg/Kg		96	70 - 130	7	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-108022/5-A

Matrix: Solid

Analysis Batch: 108064

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 108022

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:48	04/18/25 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:48	04/18/25 21:40	1

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

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

Lab Sample ID: MB 880-108022/5-A

Matrix: Solid

Analysis Batch: 108064

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108022

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:48	04/18/25 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/25 16:48	04/18/25 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:48	04/18/25 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/25 16:48	04/18/25 21:40	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	04/17/25 16:48	04/18/25 21:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/17/25 16:48	04/18/25 21:40	1

Lab Sample ID: MB 880-108025/5-A

Client Sample ID: Method Blank

Prep Batch: 108025

Matrix: Solid Prep Type: Total/NA Analysis Batch: 108064 мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 04/17/25 16:54 04/19/25 08:19 mg/Kg Toluene <0.00200 U 0.00200 04/17/25 16:54 04/19/25 08:19 mg/Kg Ethylbenzene <0.00200 U 04/17/25 16:54 04/19/25 08:19 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 04/17/25 16:54 04/19/25 08:19 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 04/17/25 16:54 04/19/25 08:19 Xylenes, Total <0.00400 U 0.00400 04/17/25 16:54 04/19/25 08:19 mg/Kg

MB MB

Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	70 - 130	04/17/25 16:54	04/19/25 08:19	1
1,4-Difluorobenzene (Surr)	96	70 - 130	04/17/25 16:54	04/19/25 08:19	1

Lab Sample ID: LCS 880-108025/1-A

Matrix: Solid

Analysis Batch: 108064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 108025

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Benzene 0.100 0.09330 mg/Kg 93 70 - 130 Toluene 0.100 0.08575 mg/Kg 86 70 - 130 0.100 0.1054 Ethylbenzene mg/Kg 105 70 - 130 0.200 0.1927 70 - 130 m-Xylene & p-Xylene mg/Kg 96 o-Xylene 0.100 0.09813 98 70 - 130

mg/Kg

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-108025/2-A

Matrix: Solid

Analysis Batch: 108064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108025

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1029		mg/Kg		103	70 - 130	10	35
Toluene	0.100	0.09011		mg/Kg		90	70 - 130	5	35
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	11	35

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1

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-108025/2-A

Matrix: Solid

Analysis Batch: 108064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108025

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.200 0.2113 106 70 - 130 9 35 m-Xylene & p-Xylene mg/Kg o-Xylene 0.100 0.1070 mg/Kg 107 70 - 130 35

LCSD LCSD

Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 103 70 - 130 1,4-Difluorobenzene (Surr) 98

Lab Sample ID: MB 880-108028/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 108180

Prep Type: Total/NA

Prep Batch: 108028

мв мв Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 04/17/25 17:07 04/21/25 11:49 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 04/17/25 17:07 04/21/25 11:49 04/21/25 11:49 Ethylbenzene <0.00200 U 0.00200 mg/Kg 04/17/25 17:07 m-Xylene & p-Xylene <0.00400 U 0.00400 04/17/25 17:07 04/21/25 11:49 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 04/17/25 17:07 04/21/25 11:49 Xylenes, Total <0.00400 U 0.00400 04/17/25 17:07 04/21/25 11:49 mg/Kg

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79	70 - 130	04/17/25 17:07	04/21/25 11:49	1
1,4-Difluorobenzene (Surr)	93	70 - 130	04/17/25 17:07	04/21/25 11:49	1

Lab Sample ID: MB 880-108124/5-A

Matrix: Solid

Analysis Batch: 108056

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

Prep Batch: 108124

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Ethylbenzene	0.002165		0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/18/25 22:03	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/18/25 14:56	04/18/25 22:03	1
1,4-Difluorobenzene (Surr)	74		70 - 130	04/18/25 14:56	04/18/25 22:03	1

Lab Sample ID: MB 880-108140/5-A

Released to Imaging: 9/30/2025 3:34:09 PM

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108140

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 16:19	04/21/25 11:42	1

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

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

Lab Sample ID: MB 880-108140/5-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108140

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 16:19	04/21/25 11:42	1

MR MR

MB MB

		-			
Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	04/18/25 16:19	04/21/25 11:42	1
1,4-Difluorobenzene (Surr)	93	70 - 130	04/18/25 16:19	04/21/25 11:42	1

Lab Sample ID: MB 880-108183/5-A

Matrix: Solid

Analysis Batch: 108179

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 108183**

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 13:13	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepai	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	04/21/25	09:09	04/21/25 13:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/25	09:09	04/21/25 13:13	1

Lab Sample ID: LCS 880-108183/1-A

Matrix: Solid

Analysis Batch: 108179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108183

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09519		mg/Kg		95	70 - 130	
Toluene	0.100	0.08629		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08673		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130	
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte Added Benzene 0.100 Toluene 0.100 Ethylbenzene 0.100 m-Xylene & p-Xylene 0.200	Analyte Added Result Benzene 0.100 0.09519 Toluene 0.100 0.08629 Ethylbenzene 0.100 0.08673 m-Xylene & p-Xylene 0.200 0.2055	Analyte Added Result Qualifier Benzene 0.100 0.09519 Toluene 0.100 0.08629 Ethylbenzene 0.100 0.08673 m-Xylene & p-Xylene 0.200 0.2055	Analyte Added Result Qualifier Unit Benzene 0.100 0.09519 mg/Kg Toluene 0.100 0.08629 mg/Kg Ethylbenzene 0.100 0.08673 mg/Kg m-Xylene & p-Xylene 0.200 0.2055 mg/Kg	Analyte Added Result Qualifier Unit Unit D Benzene 0.100 0.09519 mg/Kg Toluene 0.100 0.08629 mg/Kg Ethylbenzene 0.100 0.08673 mg/Kg m-Xylene & p-Xylene 0.200 0.2055 mg/Kg	Analyte Added Result Qualifier Unit D %Rec Benzene 0.100 0.09519 mg/Kg 95 Toluene 0.100 0.08629 mg/Kg 86 Ethylbenzene 0.100 0.08673 mg/Kg 87 m-Xylene & p-Xylene 0.200 0.2055 mg/Kg 103	Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.09519 mg/Kg 95 70 - 130 Toluene 0.100 0.08629 mg/Kg 86 70 - 130 Ethylbenzene 0.100 0.08673 mg/Kg 87 70 - 130 m-Xylene & p-Xylene 0.200 0.2055 mg/Kg 103 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-108183/2-A

Matrix: Solid

Analysis Batch: 108179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108183

Spike LCSD LCSD %Rec RPD Limit Analyte Added Result Qualifier %Rec Limits RPD Unit Benzene 0.100 0.09904 mg/Kg 99 70 - 130 4 35 Toluene 0.100 0.08132 mg/Kg 81 70 - 130 6 35 Ethylbenzene 0.100 0.1040 mg/Kg 104 70 - 130 18 35 m-Xylene & p-Xylene 0.200 0.2132 mg/Kg 107 70 - 130 35 0.100 o-Xylene 0.1043 mg/Kg 104 70 - 130 35

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-108198/5-A

Matrix: Solid

Analysis Batch: 108167

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

Prep Batch: 108198

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	•
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/25 09:35	04/21/25 22:18	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	•
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/25 09:35	04/21/25 22:18	

MB MB

MB MB

Surrogate	%Recovery	Qualifier L	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	7	70 - 130	04/21/25 09:35	04/21/25 22:18	1
1,4-Difluorobenzene (Surr)	94	7	70 - 130	04/21/25 09:35	04/21/25 22:18	1

Lab Sample ID: LCS 880-108198/1-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108198

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09254		mg/Kg		93	70 - 130	
Toluene	0.100	0.08198		mg/Kg		82	70 - 130	
Ethylbenzene	0.100	0.08655		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1744		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.09113		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-108198/2-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 108198**

Spike LCSD LCSD %Rec **RPD** Added Limit Analyte Result Qualifier Unit %Rec Limits RPD 0.100 Benzene 0.09238 92 35 mg/Kg 70 - 130 0 Toluene 0.100 0.08327 70 - 130 mg/Kg 83 2 35 0.100 0.08822 Ethylbenzene mg/Kg 88 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.1791 mg/Kg 90 70 - 130 35 o-Xylene 0.100 0.09354 70 - 130 mg/Kg 35

LCSD LCSD

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

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

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

Lab Sample ID: MB 880-108219/5-A

Lab Sample ID: LCS 880-108219/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 108180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108219

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:46	04/21/25 23:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:46	04/21/25 23:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:46	04/21/25 23:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/25 12:46	04/21/25 23:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:46	04/21/25 23:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/25 12:46	04/21/25 23:08	1

MB MB

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	04/21/25 12:46	04/21/25 23:08	1
1,4-Difluorobenzene (Surr)	96	70 - 130	04/21/25 12:46	04/21/25 23:08	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108219

Prep Type: Total/NA

Prep Batch: 108219

Analysis Batch: 108180 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09912 mg/Kg 99 70 - 130 Toluene 0.100 0.09007 mg/Kg 90 70 - 130 0.100 Ethylbenzene 0.1147 mg/Kg 115 70 - 130 0.200 0.2105 105 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1064 106 70 - 130 o-Xylene mg/Kg

LCS LCS

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

Lab Sample ID: LCSD 880-108219/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 108180

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	3	35
Toluene	0.100	0.09156		mg/Kg		92	70 - 130	2	35
Ethylbenzene	0.100	0.1106		mg/Kg		111	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2360		mg/Kg		118	70 - 130	11	35
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	119		70 - 130			
1,4-Difluorobenzene (Surr)	106		70 - 130			

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Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1

SDG: Lea County, NM

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

Lab Sample ID: MB 880-108011/1-A

Matrix: Solid

Analysis Batch: 108758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108011

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/17/25 15:37	04/26/25 20:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/17/25 15:37	04/26/25 20:45	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:37	04/26/25 20:45	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				04/17/25 15:37	04/26/25 20:45	1

70 - 130

Lab Sample ID: LCS 880-108011/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 108758

Client Sample ID: Lab Control Sample

04/26/25 20:45

04/17/25 15:37

Prep Type: Total/NA

Prep Batch: 108011

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1060		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	951.9		mg/Kg		95	70 - 130	
C10-C28)								
I and the second se								

LCS LCS

MD MD

128

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 107 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: LCSD 880-108011/3-A

Matrix: Solid

Analysis Batch: 108758

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

Prep Batch: 108011

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Limits RPD Limit Unit %Rec Gasoline Range Organics 1000 1129 mg/Kg 113 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1006 mg/Kg 101 70 - 130 20 C10-C28)

LCSD LCSD

MB MB

<50.0 U

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: MB 880-108012/1-A

Matrix: Solid

Analysis Batch: 108761

Oil Range Organics (Over C28-C36)

Client Sample ID: Method Blank

04/26/25 20:45

04/17/25 15:37

Prep Type: Total/NA

Prep Batch: 108012

MDL Unit Dil Fac Result Qualifier Analyte RL Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/17/25 15:37 04/26/25 20:45 (GRO)-C6-C10 <50.0 U 50.0 04/17/25 15:37 Diesel Range Organics (Over mg/Kg 04/26/25 20:45 C10-C28)

50.0

mg/Kg

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

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

Lab Sample ID: MB 880-108012/1-A

Lab Sample ID: LCS 880-108012/2-A

Lab Sample ID: LCSD 880-108012/3-A

Matrix: Solid

Analysis Batch: 108761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108012

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	04/17/25 15:37	04/26/25 20:45	1
o-Terphenyl	165	S1+	70 - 130	04/17/25 15:37	04/26/25 20:45	1

Client Sample ID: Lab Control Sample

Prep Batch: 108012

Matrix: Solid Prep Type: Total/NA Analysis Batch: 108761

%Rec

Spike LCS LCS Qualifier Analyte Added Result Unit D %Rec Limits 1000 960.1 96 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 995.9 100 mg/Kg 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 108761 **Prep Batch: 108012** Spike LCSD LCSD

RPD Limits RPD Limit

Analyte hahhA Result Qualifier Unit %Rec D Gasoline Range Organics 1000 1049 mg/Kg 105 70 - 130 9 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1100 mg/Kg 110 70 - 130 10 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	113	70 - 130
o-Terphenyl	110	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107982/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 108122

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <10.0 U 10.0 mg/Kg 04/18/25 21:38

Lab Sample ID: LCS 880-107982/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 108122

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits Chloride 250 271.5 mg/Kg 109 90 - 110

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-107982/3-A

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

Matrix: Solid

Analysis Batch: 108122

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	271.3		mg/Kg		109	90 - 110	0	20	

Lab Sample ID: MB 880-107983/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 108130

MB MB

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac 10.0 04/19/25 07:37 Chloride <10.0 U mg/Kg

Lab Sample ID: LCS 880-107983/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 108130

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	250.4		mg/Kg	_	100	90 - 110	

Lab Sample ID: LCSD 880-107983/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 108130

	Sp	ike LCSI					%Rec		RPD
Analyte	Add	led Resul	lt Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250 250.	7 ———— 7	mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7961-18 MS

Client Sample ID: HA-6

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 108130

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	146		249	413.7		ma/Ka		108	90 - 110	

Lab Sample ID: 890-7961-18 MSD

Released to Imaging: 9/30/2025 3:34:09 PM

Client Sample ID: HA-6 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 108130

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	146		249	405.0		mg/Kg		104	90 - 110	2	20

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

GC VOA

Prep Batch: 107945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Total/NA	Solid	5035	
890-7961-2	HA-1	Total/NA	Solid	5035	
890-7961-3	HA-1	Total/NA	Solid	5035	
890-7961-4	HA-1	Total/NA	Solid	5035	
890-7961-5	HA-1	Total/NA	Solid	5035	
MB 880-107945/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107945/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107945/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108022/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 108025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-6	HA-2	Total/NA	Solid	5035	
890-7961-7	HA-2	Total/NA	Solid	5035	
890-7961-8	HA-2	Total/NA	Solid	5035	
890-7961-9	HA-2	Total/NA	Solid	5035	
890-7961-10	HA-2	Total/NA	Solid	5035	
MB 880-108025/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108025/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108025/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108028/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 108056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Total/NA	Solid	8021B	107945
890-7961-2	HA-1	Total/NA	Solid	8021B	107945
890-7961-3	HA-1	Total/NA	Solid	8021B	107945
890-7961-4	HA-1	Total/NA	Solid	8021B	107945
890-7961-5	HA-1	Total/NA	Solid	8021B	107945
MB 880-107945/5-A	Method Blank	Total/NA	Solid	8021B	107945
MB 880-108124/5-A	Method Blank	Total/NA	Solid	8021B	108124
LCS 880-107945/1-A	Lab Control Sample	Total/NA	Solid	8021B	107945
LCSD 880-107945/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107945

Analysis Batch: 108064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-6	HA-2	Total/NA	Solid	8021B	108025
890-7961-7	HA-2	Total/NA	Solid	8021B	108025
890-7961-8	HA-2	Total/NA	Solid	8021B	108025
890-7961-9	HA-2	Total/NA	Solid	8021B	108025
890-7961-10	HA-2	Total/NA	Solid	8021B	108025
MB 880-108022/5-A	Method Blank	Total/NA	Solid	8021B	108022
MB 880-108025/5-A	Method Blank	Total/NA	Solid	8021B	108025
LCS 880-108025/1-A	Lab Control Sample	Total/NA	Solid	8021B	108025
LCSD 880-108025/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108025

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

GC VOA

Prep Batch: 108124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108124/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 108140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108140/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 108167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-11	HA-3	Total/NA	Solid	8021B	108198
890-7961-12	HA-3	Total/NA	Solid	8021B	108198
890-7961-13	HA-4	Total/NA	Solid	8021B	108198
890-7961-14	HA-4	Total/NA	Solid	8021B	108198
890-7961-15	HA-5	Total/NA	Solid	8021B	108198
890-7961-16	HA-5	Total/NA	Solid	8021B	108198
MB 880-108140/5-A	Method Blank	Total/NA	Solid	8021B	108140
MB 880-108198/5-A	Method Blank	Total/NA	Solid	8021B	108198
LCS 880-108198/1-A	Lab Control Sample	Total/NA	Solid	8021B	108198
LCSD 880-108198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108198

Analysis Batch: 108179

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-	-7961-1	HA-1	Total/NA	Solid	8021B	108183
890-	-7961-2	HA-1	Total/NA	Solid	8021B	108183
890-	-7961-3	HA-1	Total/NA	Solid	8021B	108183
890-	-7961-17	HA-6	Total/NA	Solid	8021B	108183
890-	-7961-18	HA-6	Total/NA	Solid	8021B	108183
MB	880-108183/5-A	Method Blank	Total/NA	Solid	8021B	108183
LCS	8 880-108183/1-A	Lab Control Sample	Total/NA	Solid	8021B	108183
LCS	SD 880-108183/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108183

Analysis Batch: 108180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-4	HA-1	Total/NA	Solid	8021B	108219
890-7961-5	HA-1	Total/NA	Solid	8021B	108219
890-7961-6	HA-2	Total/NA	Solid	8021B	108219
890-7961-7	HA-2	Total/NA	Solid	8021B	108219
890-7961-8	HA-2	Total/NA	Solid	8021B	108219
890-7961-9	HA-2	Total/NA	Solid	8021B	108219
890-7961-10	HA-2	Total/NA	Solid	8021B	108219
MB 880-108028/5-A	Method Blank	Total/NA	Solid	8021B	108028
MB 880-108219/5-A	Method Blank	Total/NA	Solid	8021B	108219
LCS 880-108219/1-A	Lab Control Sample	Total/NA	Solid	8021B	108219
LCSD 880-108219/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108219

Prep Batch: 108183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Total/NA	Solid	5035	
890-7961-2	HA-1	Total/NA	Solid	5035	
890-7961-3	HA-1	Total/NA	Solid	5035	
890-7961-17	HA-6	Total/NA	Solid	5035	
890-7961-18	HA-6	Total/NA	Solid	5035	

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 108183 (Continued)

Lab Sa	imple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 88	0-108183/5-A	Method Blank	Total/NA	Solid	5035	
LCS 88	30-108183/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD	880-108183/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-11	HA-3	Total/NA	Solid	5035	
890-7961-12	HA-3	Total/NA	Solid	5035	
890-7961-13	HA-4	Total/NA	Solid	5035	
890-7961-14	HA-4	Total/NA	Solid	5035	
890-7961-15	HA-5	Total/NA	Solid	5035	
890-7961-16	HA-5	Total/NA	Solid	5035	
MB 880-108198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-4	HA-1	Total/NA	Solid	5035	_
890-7961-5	HA-1	Total/NA	Solid	5035	
890-7961-6	HA-2	Total/NA	Solid	5035	
890-7961-7	HA-2	Total/NA	Solid	5035	
890-7961-8	HA-2	Total/NA	Solid	5035	
890-7961-9	HA-2	Total/NA	Solid	5035	
890-7961-10	HA-2	Total/NA	Solid	5035	
MB 880-108219/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108219/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108219/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 108233

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7961-1	HA-1	Total/NA	Solid	Total BTEX	
890-7961-2	HA-1	Total/NA	Solid	Total BTEX	
890-7961-3	HA-1	Total/NA	Solid	Total BTEX	
890-7961-4	HA-1	Total/NA	Solid	Total BTEX	
390-7961-5	HA-1	Total/NA	Solid	Total BTEX	
890-7961-6	HA-2	Total/NA	Solid	Total BTEX	
890-7961-7	HA-2	Total/NA	Solid	Total BTEX	
390-7961-8	HA-2	Total/NA	Solid	Total BTEX	
890-7961-9	HA-2	Total/NA	Solid	Total BTEX	
890-7961-10	HA-2	Total/NA	Solid	Total BTEX	
890-7961-11	HA-3	Total/NA	Solid	Total BTEX	
890-7961-12	HA-3	Total/NA	Solid	Total BTEX	
390-7961-13	HA-4	Total/NA	Solid	Total BTEX	
390-7961-14	HA-4	Total/NA	Solid	Total BTEX	
890-7961-15	HA-5	Total/NA	Solid	Total BTEX	
390-7961-16	HA-5	Total/NA	Solid	Total BTEX	
390-7961-17	HA-6	Total/NA	Solid	Total BTEX	
890-7961-18	HA-6	Total/NA	Solid	Total BTEX	

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

GC Semi VOA

Prep Batch: 108011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Total/NA	Solid	8015NM Prep	
890-7961-2	HA-1	Total/NA	Solid	8015NM Prep	
MB 880-108011/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108011/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108011/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 108012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7961-3	HA-1	Total/NA	Solid	8015NM Prep	
890-7961-4	HA-1	Total/NA	Solid	8015NM Prep	
890-7961-5	HA-1	Total/NA	Solid	8015NM Prep	
890-7961-6	HA-2	Total/NA	Solid	8015NM Prep	
890-7961-7	HA-2	Total/NA	Solid	8015NM Prep	
890-7961-8	HA-2	Total/NA	Solid	8015NM Prep	
890-7961-9	HA-2	Total/NA	Solid	8015NM Prep	
890-7961-10	HA-2	Total/NA	Solid	8015NM Prep	
890-7961-11	HA-3	Total/NA	Solid	8015NM Prep	
890-7961-12	HA-3	Total/NA	Solid	8015NM Prep	
890-7961-13	HA-4	Total/NA	Solid	8015NM Prep	
890-7961-14	HA-4	Total/NA	Solid	8015NM Prep	
890-7961-15	HA-5	Total/NA	Solid	8015NM Prep	
890-7961-16	HA-5	Total/NA	Solid	8015NM Prep	
890-7961-17	HA-6	Total/NA	Solid	8015NM Prep	
890-7961-18	HA-6	Total/NA	Solid	8015NM Prep	
MB 880-108012/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108012/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108012/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Total/NA	Solid	8015B NM	108011
890-7961-2	HA-1	Total/NA	Solid	8015B NM	108011
MB 880-108011/1-A	Method Blank	Total/NA	Solid	8015B NM	108011
LCS 880-108011/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108011
LCSD 880-108011/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108011

Analysis Batch: 108761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-3	HA-1	Total/NA	Solid	8015B NM	108012
890-7961-4	HA-1	Total/NA	Solid	8015B NM	108012
890-7961-5	HA-1	Total/NA	Solid	8015B NM	108012
890-7961-6	HA-2	Total/NA	Solid	8015B NM	108012
890-7961-7	HA-2	Total/NA	Solid	8015B NM	108012
890-7961-8	HA-2	Total/NA	Solid	8015B NM	108012
890-7961-9	HA-2	Total/NA	Solid	8015B NM	108012
890-7961-10	HA-2	Total/NA	Solid	8015B NM	108012
890-7961-11	HA-3	Total/NA	Solid	8015B NM	108012
890-7961-12	HA-3	Total/NA	Solid	8015B NM	108012
890-7961-13	HA-4	Total/NA	Solid	8015B NM	108012
890-7961-14	HA-4	Total/NA	Solid	8015B NM	108012
890-7961-15	HA-5	Total/NA	Solid	8015B NM	108012

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 108761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-16	HA-5	Total/NA	Solid	8015B NM	108012
890-7961-17	HA-6	Total/NA	Solid	8015B NM	108012
890-7961-18	HA-6	Total/NA	Solid	8015B NM	108012
MB 880-108012/1-A	Method Blank	Total/NA	Solid	8015B NM	108012
LCS 880-108012/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108012
LCSD 880-108012/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108012

Analysis Batch: 108858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Total/NA	Solid	8015 NM	
890-7961-2	HA-1	Total/NA	Solid	8015 NM	
890-7961-3	HA-1	Total/NA	Solid	8015 NM	
890-7961-4	HA-1	Total/NA	Solid	8015 NM	
890-7961-5	HA-1	Total/NA	Solid	8015 NM	
890-7961-6	HA-2	Total/NA	Solid	8015 NM	
890-7961-7	HA-2	Total/NA	Solid	8015 NM	
890-7961-8	HA-2	Total/NA	Solid	8015 NM	
890-7961-9	HA-2	Total/NA	Solid	8015 NM	
890-7961-10	HA-2	Total/NA	Solid	8015 NM	
890-7961-11	HA-3	Total/NA	Solid	8015 NM	
890-7961-12	HA-3	Total/NA	Solid	8015 NM	
890-7961-13	HA-4	Total/NA	Solid	8015 NM	
890-7961-14	HA-4	Total/NA	Solid	8015 NM	
890-7961-15	HA-5	Total/NA	Solid	8015 NM	
890-7961-16	HA-5	Total/NA	Solid	8015 NM	
890-7961-17	HA-6	Total/NA	Solid	8015 NM	
890-7961-18	HA-6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Soluble	Solid	DI Leach	
890-7961-2	HA-1	Soluble	Solid	DI Leach	
890-7961-3	HA-1	Soluble	Solid	DI Leach	
890-7961-4	HA-1	Soluble	Solid	DI Leach	
890-7961-5	HA-1	Soluble	Solid	DI Leach	
890-7961-6	HA-2	Soluble	Solid	DI Leach	
890-7961-7	HA-2	Soluble	Solid	DI Leach	
890-7961-8	HA-2	Soluble	Solid	DI Leach	
MB 880-107982/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107982/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107982/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 107983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-9	HA-2	Soluble	Solid	DI Leach	
890-7961-10	HA-2	Soluble	Solid	DI Leach	
890-7961-11	HA-3	Soluble	Solid	DI Leach	
890-7961-12	HA-3	Soluble	Solid	DI Leach	
890-7961-13	HA-4	Soluble	Solid	DI Leach	

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 107983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-14	HA-4	Soluble	Solid	DI Leach	
890-7961-15	HA-5	Soluble	Solid	DI Leach	
890-7961-16	HA-5	Soluble	Solid	DI Leach	
890-7961-17	HA-6	Soluble	Solid	DI Leach	
890-7961-18	HA-6	Soluble	Solid	DI Leach	
MB 880-107983/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107983/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107983/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7961-18 MS	HA-6	Soluble	Solid	DI Leach	
890-7961-18 MSD	HA-6	Soluble	Solid	DI Leach	

Analysis Batch: 108122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-1	HA-1	Soluble	Solid	300.0	107982
890-7961-2	HA-1	Soluble	Solid	300.0	107982
890-7961-3	HA-1	Soluble	Solid	300.0	107982
890-7961-4	HA-1	Soluble	Solid	300.0	107982
890-7961-5	HA-1	Soluble	Solid	300.0	107982
890-7961-6	HA-2	Soluble	Solid	300.0	107982
890-7961-7	HA-2	Soluble	Solid	300.0	107982
890-7961-8	HA-2	Soluble	Solid	300.0	107982
MB 880-107982/1-A	Method Blank	Soluble	Solid	300.0	107982
LCS 880-107982/2-A	Lab Control Sample	Soluble	Solid	300.0	107982
LCSD 880-107982/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107982

Analysis Batch: 108130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7961-9	HA-2	Soluble	Solid	300.0	107983
890-7961-10	HA-2	Soluble	Solid	300.0	107983
890-7961-11	HA-3	Soluble	Solid	300.0	107983
890-7961-12	HA-3	Soluble	Solid	300.0	107983
890-7961-13	HA-4	Soluble	Solid	300.0	107983
890-7961-14	HA-4	Soluble	Solid	300.0	107983
890-7961-15	HA-5	Soluble	Solid	300.0	107983
890-7961-16	HA-5	Soluble	Solid	300.0	107983
890-7961-17	HA-6	Soluble	Solid	300.0	107983
890-7961-18	HA-6	Soluble	Solid	300.0	107983
MB 880-107983/1-A	Method Blank	Soluble	Solid	300.0	107983
LCS 880-107983/2-A	Lab Control Sample	Soluble	Solid	300.0	107983
LCSD 880-107983/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107983
890-7961-18 MS	HA-6	Soluble	Solid	300.0	107983
890-7961-18 MSD	HA-6	Soluble	Solid	300.0	107983

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-1

Matrix: Solid

Job ID: 890-7961-1

SDG: Lea County, NM

Client Sample ID: HA-1 Date Collected: 04/16/25 08:30

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	108183	04/21/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108179	04/21/25 20:18	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	107945	04/18/25 14:50	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108056	04/19/25 15:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/21/25 20:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108011	04/17/25 16:06	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	108758	04/27/25 02:54	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107982	04/17/25 13:50	SA	EET MID
Soluble	Analysis	300.0		1			108122	04/19/25 00:15	SMC	EET MID

Client Sample ID: HA-1 Lab Sample ID: 890-7961-2

Matrix: Solid

Date Collected: 04/16/25 08:35 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	108183	04/21/25 09:09	AA	EET MIC
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108179	04/21/25 20:38	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	107945	04/18/25 14:50	MNR	EET MIC
Total/NA	Analysis	8021B		100	5 mL	5 mL	108056	04/19/25 16:04	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			108233	04/21/25 20:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 03:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108011	04/17/25 16:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108758	04/27/25 03:09	TKC	EET MIC
Soluble	Leach	DI Leach			4.98 g	50 mL	107982	04/17/25 13:50	SA	EET MIC
Soluble	Analysis	300.0		1			108122	04/19/25 00:37	SMC	EET MII

Lab Sample ID: 890-7961-3 **Client Sample ID: HA-1** Date Collected: 04/16/25 08:40 Matrix: Solid

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	108183	04/21/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108179	04/21/25 20:59	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	107945	04/18/25 14:50	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108056	04/19/25 16:25	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			108233	04/21/25 20:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/26/25 23:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/26/25 23:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107982	04/17/25 13:50	SA	EET MIC
Soluble	Analysis	300.0		1			108122	04/19/25 00:45	SMC	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-4

Matrix: Solid

Job ID: 890-7961-1

SDG: Lea County, NM

Client Sample ID: HA-1 Date Collected: 04/16/25 08:45 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	108219	04/21/25 12:46	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108180	04/22/25 05:01	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	107945	04/18/25 14:50	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108056	04/19/25 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 05:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/26/25 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/26/25 23:25	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107982	04/17/25 13:50	SA	EET MID
Soluble	Analysis	300.0		1			108122	04/19/25 00:52	SMC	EET MID

Client Sample ID: HA-1 Lab Sample ID: 890-7961-5

Date Collected: 04/16/25 08:50 Matrix: Solid

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108219	04/21/25 12:46	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108180	04/22/25 05:21	MNR	EET MIC
Total/NA	Prep	5035			5.01 g	5 mL	107945	04/18/25 14:50	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108056	04/19/25 17:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 05:21	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			108858	04/26/25 23:40	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108012	04/17/25 16:10	EL	EET MIC
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/26/25 23:40	TKC	EET MIC
Soluble	Leach	DI Leach			5.00 g	50 mL	107982	04/17/25 13:50	SA	EET MIC
Soluble	Analysis	300.0		1			108122	04/19/25 01:00	SMC	EET MII

Lab Sample ID: 890-7961-6 Client Sample ID: HA-2 Date Collected: 04/16/25 08:55 Matrix: Solid

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	108025	04/18/25 15:11	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108064	04/19/25 14:52	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	108219	04/21/25 12:46	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108180	04/22/25 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 05:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/26/25 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	108761	04/26/25 23:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	107982	04/17/25 13:50	SA	EET MID
Soluble	Analysis	300.0		1			108122	04/19/25 01:07	SMC	EET MID

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-7961-7

Matrix: Solid

Job ID: 890-7961-1

Client Sample ID: HA-2 Date Collected: 04/16/25 09:00 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108025	04/18/25 15:11	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108064	04/19/25 15:12	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	108219	04/21/25 12:46	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108180	04/22/25 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 06:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 00:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 00:09	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107982	04/17/25 13:50	SA	EET MID
Soluble	Analysis	300.0		1			108122	04/19/25 01:15	SMC	EET MID

Lab Sample ID: 890-7961-8

Client Sample ID: HA-2 Date Collected: 04/16/25 09:05 Matrix: Solid

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	108025	04/18/25 15:11	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108064	04/19/25 15:33	MNR	EET MIC
Total/NA	Prep	5035			5.03 g	5 mL	108219	04/21/25 12:46	MNR	EET MIC
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108180	04/22/25 06:23	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 06:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 00:24	SM	EET MI
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 00:24	TKC	EET MIC
Soluble	Leach	DI Leach			5.04 g	50 mL	107982	04/17/25 13:50	SA	EET MIC
Soluble	Analysis	300.0		1			108122	04/19/25 01:22	SMC	EET MII

Client Sample ID: HA-2 Lab Sample ID: 890-7961-9 Date Collected: 04/16/25 09:10

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108025	04/18/25 15:11	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	108064	04/19/25 15:53	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	108219	04/21/25 12:46	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108180	04/22/25 06:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 06:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 00:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 00:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 08:20	SMC	EET MID

Eurofins Carlsbad

SDG: Lea County, NM

Matrix: Solid

Leach

Analysis

Client Sample ID: HA-2

DI Leach

300.0

Date Collected: 04/16/25 09:15 Date Received: 04/16/25 14:03

Soluble

Soluble

Lab Sample ID: 890-7961-10

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 108025 Total/NA Prep 4.95 g 5 mL 04/18/25 15:11 MNR **EET MID** Total/NA Analysis 8021B 100 5 mL 5 mL 108064 04/19/25 16:14 MNR **EET MID** Total/NA Prep 5035 4.99 g 5 mL 108219 04/21/25 12:46 MNR **EET MID** Total/NA Analysis 8021B 1000 5 mL 5 mL 108180 04/22/25 07:04 MNR EET MID Total/NA Analysis Total BTEX 1 108233 04/22/25 07:04 ΑJ **EET MID** Total/NA Analysis 8015 NM 108858 04/27/25 01:08 SM **EET MID** Total/NA 8015NM Prep 10.00 g 10 mL 108012 04/17/25 16:10 EL Prep **EET MID** Total/NA Analysis 8015B NM 5 1 uL 1 uL 108761 04/27/25 01:08 TKC **EET MID**

Client Sample ID: HA-3 Lab Sample ID: 890-7961-11 Matrix: Solid

5.02 g

50 mL

107983

108130

04/17/25 13:52

04/19/25 08:27

SA

SMC

Date Collected: 04/16/25 09:20 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108167	04/22/25 04:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 04:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 01:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	108761	04/27/25 01:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 08:34	SMC	EET MID

Client Sample ID: HA-3 Lab Sample ID: 890-7961-12

Date Collected: 04/16/25 09:25 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108167	04/22/25 04:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 04:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 01:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 01:39	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 08:41	SMC	EET MID

EET MID

EET MID

Matrix: Solid

Client: Earth Systems Response and Restoration

DI Leach

300.0

Leach

Analysis

Project/Site: Mulva

Client Sample ID: HA-4

Date Collected: 04/16/25 09:30

Date Received: 04/16/25 14:03

Lab Sample ID: 890-7961-13

SA

SMC

Matrix: Solid

Job ID: 890-7961-1

EET MID

EET MID

SDG: Lea County, NM

04/17/25 13:52

04/19/25 09:03

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 108198 Total/NA Prep 5.05 g 5 mL 04/21/25 09:35 AA **EET MID** 8021B Total/NA Analysis 1000 5 mL 5 mL 108167 04/22/25 05:11 MNR **EET MID** Total/NA Analysis Total BTEX 108233 04/22/25 05:11 ΑJ EET MID 1 Total/NA 8015 NM 108858 **EET MID** Analysis 1 04/27/25 01:55 SM Total/NA 8015NM Prep 108012 04/17/25 16:10 EET MID Prep 10.03 g 10 mL FΙ Total/NA Analysis 8015B NM 20 1 uL 1 uL 108761 04/27/25 01:55 TKC **EET MID**

Client Sample ID: HA-4 Lab Sample ID: 890-7961-14

1

5.01 g

50 mL

107983

108130

Date Collected: 04/16/25 09:35 **Matrix: Solid**

Date Received: 04/16/25 14:03

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108167	04/22/25 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 05:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 02:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 02:09	TKC	EET MIC
Soluble	Leach	DI Leach			5.00 g	50 mL	107983	04/17/25 13:52	SA	EET MIC
Soluble	Analysis	300.0		1			108130	04/19/25 09:10	SMC	EET MID

Client Sample ID: HA-5 Lab Sample ID: 890-7961-15 Date Collected: 04/16/25 09:40

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108167	04/22/25 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 05:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	108761	04/27/25 02:24	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 09:17	SMC	EET MIC

Client Sample ID: HA-5 Lab Sample ID: 890-7961-16

Date Collected: 04/16/25 09:45 Date Received: 04/16/25 14:03

	5	5								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108167	04/22/25 06:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/22/25 06:13	AJ	EET MID

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Matrix: Solid

Page 43 of 51

Matrix: Solid

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7961-16

Matrix: Solid

Date Collected: 04/16/25 09:45 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			108858	04/27/25 02:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 02:39	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 09:24	SMC	EET MID

Client Sample ID: HA-6 Lab Sample ID: 890-7961-17

Date Collected: 04/16/25 09:50 **Matrix: Solid**

Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108183	04/21/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108179	04/21/25 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/21/25 21:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	108761	04/27/25 02:54	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 09:32	SMC	EET MID

Client Sample ID: HA-6 Lab Sample ID: 890-7961-18

Date Collected: 04/16/25 09:55 Date Received: 04/16/25 14:03

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	108183	04/21/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	108179	04/21/25 21:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108233	04/21/25 21:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			108858	04/27/25 03:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	108012	04/17/25 16:10	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108761	04/27/25 03:09	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107983	04/17/25 13:52	SA	EET MID
Soluble	Analysis	300.0		1			108130	04/19/25 09:39	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7961-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF)	T104704400	06-30-25
The following analytes	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t mav include analytes
,		· · · · · · · · · · · · · · · · · · ·	, 3,	·····, ·····, ···
for which the agency de	oes not offer certification.			
for which the agency do	pes not offer certification . Prep Method	Matrix	Analyte	
ů ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-7961-1 SDG: Lea 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
3015NM Prep	Microextraction	SW846	EET MID
OI 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

Eurofins Carlsbad

7

4

3

7

8

9

11

4.6

114

Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

HA-5

HA-5

HA-6

HA-6

890-7961-15

890-7961-16

890-7961-17

890-7961-18

Job ID: 890-7961-1 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7961-1	HA-1	Solid	04/16/25 08:30	04/16/25 14:03	0.5
890-7961-2	HA-1	Solid	04/16/25 08:35	04/16/25 14:03	1
890-7961-3	HA-1	Solid	04/16/25 08:40	04/16/25 14:03	2
890-7961-4	HA-1	Solid	04/16/25 08:45	04/16/25 14:03	3
890-7961-5	HA-1	Solid	04/16/25 08:50	04/16/25 14:03	4
890-7961-6	HA-2	Solid	04/16/25 08:55	04/16/25 14:03	0.5
890-7961-7	HA-2	Solid	04/16/25 09:00	04/16/25 14:03	1
890-7961-8	HA-2	Solid	04/16/25 09:05	04/16/25 14:03	2
890-7961-9	HA-2	Solid	04/16/25 09:10	04/16/25 14:03	3
890-7961-10	HA-2	Solid	04/16/25 09:15	04/16/25 14:03	4
890-7961-11	HA-3	Solid	04/16/25 09:20	04/16/25 14:03	0.5
890-7961-12	HA-3	Solid	04/16/25 09:25	04/16/25 14:03	1
890-7961-13	HA-4	Solid	04/16/25 09:30	04/16/25 14:03	0.5
890-7961-14	HA-4	Solid	04/16/25 09:35	04/16/25 14:03	1

Solid

Solid

Solid

Solid

04/16/25 09:40

04/16/25 09:45

04/16/25 09:50

04/16/25 09:55

04/16/25 14:03 0.5

1

04/16/25 14:03

04/16/25 14:03

04/16/25 14:03 1

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eurofins

Xenco

Environment Testing

Project Manager: Company Name:

Earth Systems R&R Gilbert Moreno

Bill to: (if different) Company Name: \ddress:

Earth Systems R & R

State of Project:

Program: UST/PST 🗌 PRP 🗌 Brownfields 🗌 RRC 🗎 Superfund 📗

Work Order Comments

1910 Resource Ct.

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

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

× × × × × × × Chloride-NM
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QUEST QUEST Deliverables: EDD

Revised Date: 08/25/2020 Rev. 2020.:

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 9:55 9:50 9:45

13PPM Texas 11 Al Sb As Ba Be

Grab/ Grab/

HA-6 HA-6 HA-5

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4.16.25 4.16.25 4.16.25 4.16.25 4.16.25

0.5

Grab/ Grab/ Grab/ Grab/

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 flable 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.

eurofins

Xenco

Environment Testing

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubb Hobbs, NM (575) 392-7550, Carlst Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

	s R & R STEX-NM Hold 24 Hr Rush ANALYSIS RI ANALYSIS RI	Work Order No: Www.xenco.com Work Order C	Work Order No: Www.xenco.com Work Order G
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Sample Custody Seals:

Sample Identification

Matrix

Date

Time

Depth (feet)

Comp

of Cont

TPH -NM

Chloride-NM

Grab/

Sampled

HA-2

HA-3 HA-3

> 4.16.25 4.16.25 Sampled

9:20 9:15

0.5

Grab/ Grab/

×

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4.16.25

4.16.25

9:30 9:25

0.5

×

Grab/

9:35

HA-5 HA-4 HA-4

9:40

0.5

Cooler Custody Seals:

Yes Yes No

No

(NA

Corrected Temperature: Temperature Reading: Correction Factor: Thermometer ID:

Yes

emp Blank:

Yes

Wet Ice:

Yes) No

Parameters

nnoc 0

SAMPLE RECEIPT Samples Received Intact:

PO/WO#:

Project Location: Project Number:

Lea County, NM

Due Date: ☑ Routine

5 Day TAT

VP-210 Mulva

Gilbert Moreno

TAT starts the day received by the lab, if

received by 4:30pm

Project Name:

Sampler's Name:

City, State ZIP:

Carlsbad, NM, 88220

832-541-7719

Email:

gmoreno@earthsys.net

City, State ZIP:

\ddress:

Turn Around

☐ Rush

Earth Systems R&R Gilbert Moreno

Bill to: (if different) Company Name:

Earth System

1910 Resource Ct.

Address: Company Name: Project Manager:

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7961-1

SDG Number: Lea County, NM

Login Number: 7961 List Source: Eurofins Carlsbad

Creator: Lopez, Abraham

List Number: 1

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	N/A	

Euronnis Carisbau

Released to Imaging: 9/30/2025 3:34:09 PM

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7961-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 04/17/25 11:42 AM

List Number: 2 Creator: Vasquez, Julisa

Login Number: 7961

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	

Released to Imaging: 9/30/2025 3:34:09 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/7/2025 7:28:55 PM

JOB DESCRIPTION

MULVA Lea County, NM

JOB NUMBER

890-8372-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 7/7/2025 7:28:55 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 27

7/7

Client: Earth Systems Response and Restoration Project/Site: MULVA

Laboratory Job ID: 890-8372-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Racaint Chacklists	26

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Definitions/Glossary

Client: Earth Systems Response and Restoration Project/Site: MULVA

Job ID: 890-8372-1 SDG: Lea County, NM

Qualifiers GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

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)

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8372-1

Project: MULVA

Job ID: 890-8372-1 Eurofins Carlsbad

Job Narrative 890-8372-1

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 7/3/2025 1:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-8372-1), CS - 2 (890-8372-2), CS - 3 (890-8372-3), SW - 1 (890-8372-4), SW - 2 (890-8372-5) and SW - 3 (890-8372-6).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW - 2 (890-8372-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: CS - 1 (890-8372-1), SW - 2 (890-8372-5) and SW - 3 (890-8372-6). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS - 2 (890-8372-2) and CS - 3 (890-8372-3). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS - 2 (890-8372-2) and CS - 3 (890-8372-3). 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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113667 and analytical batch 880-113676 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.

The associated samples are: CS - 1 (890-8372-1), CS - 2 (890-8372-2), CS - 3 (890-8372-3), SW - 1 (890-8372-4), SW - 2 (890-8372-5), SW - 3 (890-8372-6), (890-8372-A-1-H MS) and (890-8372-A-1-I MSD).

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

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Job ID: 890-8372-1

SDG: Lea County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: MULVA

ah Sample ID: 890-8372-

Client Sample ID: CS - 1

Date Collected: 07/03/25 08:00 Date Received: 07/03/25 13:52

Sample Depth: 6

Lab Sample ID: 890-8372-1 Matrix: Solid

07/07/25 07:54

07/07/25 12:38

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL D Prepared Analyzed Dil Fac RL Unit <0.0497 U 07/07/25 09:39 07/07/25 12:40 Benzene 0.0497 mg/Kg 25 Toluene 0.104 0.0497 mg/Kg 07/07/25 09:39 07/07/25 12:40 25 07/07/25 12:40 0.0497 07/07/25 09:39 25 Ethylbenzene 0.113 mg/Kg 0.0994 07/07/25 09:39 07/07/25 12:40 25 m-Xylene & p-Xylene 0.598 mg/Kg 0.326 0.0497 mg/Kg 07/07/25 09:39 07/07/25 12:40 25 o-Xylene 0.0994 07/07/25 09:39 07/07/25 12:40 25 **Xylenes, Total** 0.924 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 07/07/25 09:39 123 70 - 130 07/07/25 12:40 25 77 70 - 130 07/07/25 09:39 07/07/25 12:40 1,4-Difluorobenzene (Surr) 25

Method: TAL SOP Total BTEX - Total BTEX CalculationAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacTotal BTEX1.140.0994mg/Kg07/07/25 12:401

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

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Factor

 Total TPH
 294
 49.9
 mg/Kg
 07/07/25 12:38
 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDI Analyte RL Unit D Analyzed Dil Fac Prepared <49.9 U Gasoline Range Organics 49.9 mg/Kg 07/07/25 07:54 07/07/25 12:38 (GRO)-C6-C10 **Diesel Range Organics (Over** 294 49.9 mg/Kg 07/07/25 07:54 07/07/25 12:38 C10-C28)

Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 70 - 130 07/07/25 07:54 1-Chlorooctane 105 07/07/25 12:38 07/07/25 07:54 o-Terphenyl 115 70 - 130 07/07/25 12:38

49 9

mg/Kg

<49.9 U

Client Sample ID: CS - 2 Lab Sample ID: 890-8372-2

Date Collected: 07/03/25 08:05 Date Received: 07/03/25 13:52

Oil Range Organics (Over C28-C36)

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.579		0.202		mg/Kg		07/05/25 17:24	07/06/25 03:12	100
Toluene	7.39		0.202		mg/Kg		07/05/25 17:24	07/06/25 03:12	100
Ethylbenzene	2.84		0.202		mg/Kg		07/05/25 17:24	07/06/25 03:12	100
m-Xylene & p-Xylene	15.2		0.403		mg/Kg		07/05/25 17:24	07/06/25 03:12	100
o-Xylene	5.96		0.202		mg/Kg		07/05/25 17:24	07/06/25 03:12	100
Xylenes, Total	21.2		0.403		mg/Kg		07/05/25 17:24	07/06/25 03:12	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				07/05/25 17:24	07/06/25 03:12	100

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Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-8372-2

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

Client Sample ID: CS - 2

Date Collected: 07/03/25 08:05 Date Received: 07/03/25 13:52

Sample Depth: 6

Method: SW846 8021B - Volatile Or	ganic Compounds	(GC)	(Continued)
modification of the court of th	gaine compounds		(Continuou)

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 _ 130	07/05/25 17:24	07/06/25 03:12	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte		Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	32.0		0.403	mg/K	g		07/06/25 03:12	1

Method: SW846 8015 NM - Diesel Range	Organice (DD)	O) (CC)
Method: 3W040 0013 NM - Dieser Kange	Ciganics (Dix	<i>J)</i> (GC)

Analyte	Result (Qualifier	RL	MDL Ur	nit	D	Prepared	Analyzed	Dil Fac
Total TPH	1780		49.9	m _i	g/Kg			07/07/25 12:53	1

Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	453	49.9	mg/Kg		07/07/25 07:54	07/07/25 12:53	1
Diesel Range Organics (Over C10-C28)	1330	49.9	mg/Kg		07/07/25 07:54	07/07/25 12:53	1
Oil Range Organics (Over C28-C36)	<49.9 U	49.9	mg/Kg		07/07/25 07:54	07/07/25 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed A	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	07/07/25 0	7:54 07/	07/25 12:53	1
o-Terphenyl	132	S1+	70 - 130	07/07/25 ()7:54 07/	07/25 12:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142	10.0	mg/Kg			07/07/25 10:21	1

Client Sample ID: CS - 3 Lab Sample ID: 890-8372-3

Date Collected: 07/03/25 08:10 Date Received: 07/03/25 13:52

Sample Depth: 6

Mothod:	SW846 8021I	2 - Volatilo	Organic	Compounde	(CC)
i weliiou.	344040 002 11	o - voiatile	Oruanic v	Compounds	IUCI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.782		0.199		mg/Kg		07/05/25 17:24	07/06/25 03:33	100
Toluene	14.2		0.199		mg/Kg		07/05/25 17:24	07/06/25 03:33	100
Ethylbenzene	7.25		0.199		mg/Kg		07/05/25 17:24	07/06/25 03:33	100
m-Xylene & p-Xylene	24.1		0.398		mg/Kg		07/05/25 17:24	07/06/25 03:33	100
o-Xylene	9.71		0.199		mg/Kg		07/05/25 17:24	07/06/25 03:33	100
Xylenes, Total	33.8		0.398		mg/Kg		07/05/25 17:24	07/06/25 03:33	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130				07/05/25 17:24	07/06/25 03:33	100

4-Bromofluorobenzene (Surr)	162 S1+	70 - 130	07/05/25 17:24	07/06/25 03:33	100
1,4-Difluorobenzene (Surr)	88	70 - 130	07/05/25 17:24	07/06/25 03:33	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	56.0	0.398	mg/Kg			07/06/25 03:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2230		50.0		mg/Kg			07/07/25 13:08	1

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Matrix: Solid

Job ID: 890-8372-1

Matrix: Solid

Matrix: Solid

SDG: Lea County, NM

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Lab Sample ID: 890-8372-3

Date Collected: 07/03/25 08:10 Date Received: 07/03/25 13:52

Client Sample ID: CS - 3

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	547		50.0		mg/Kg		07/07/25 07:54	07/07/25 13:08	1
Diesel Range Organics (Over C10-C28)	1680		50.0		mg/Kg		07/07/25 07:54	07/07/25 13:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/07/25 07:54	07/07/25 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				07/07/25 07:54	07/07/25 13:08	1
o-Terphenyl -	131	S1+	70 - 130				07/07/25 07:54	07/07/25 13:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

07/07/25 10:26 9.96 Chloride 117 mg/Kg Client Sample ID: SW - 1 Lab Sample ID: 890-8372-4

Date Collected: 07/03/25 08:15 Date Received: 07/03/25 13:52

Sample Depth: 0-6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/25 09:39	07/07/25 16:37	
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/25 09:39	07/07/25 16:37	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/25 09:39	07/07/25 16:37	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/07/25 09:39	07/07/25 16:37	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/25 09:39	07/07/25 16:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/07/25 09:39	07/07/25 16:37	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				07/07/25 09:39	07/07/25 16:37	1
1,4-Difluorobenzene (Surr)	86		70 - 130				07/07/25 09:39	07/07/25 16:37	1
Analyte Total BTEX	<0.00399	Qualifier U	0.00399	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 07/07/25 16:37	
Total BTEX Method: SW846 8015 NM - Diese	<0.00399	ics (DRO) (0.00399 GC)		mg/Kg			07/07/25 16:37	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00399	U	0.00399			<u>D</u>	Prepared		Dil Fac
Total BTEX	<0.00399 el Range Organ Result 72.6 sel Range Orga Result	ics (DRO) ((Qualifier DRO) Qualifier Qualifier	0.00399 GC) RL 49.8	MDL	mg/Kg			07/07/25 16:37 Analyzed 07/07/25 13:22 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00399 el Range Organ Result 72.6 sel Range Orga	ics (DRO) ((Qualifier DRO) Qualifier Qualifier	0.00399 GC) RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	07/07/25 16:37 Analyzed 07/07/25 13:22	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00399 el Range Organ Result 72.6 sel Range Orga Result	ics (DRO) ((Qualifier DRO) Qualifier Qualifier	0.00399 GC) RL 49.8 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	07/07/25 16:37 Analyzed 07/07/25 13:22 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00399 el Range Organ Result 72.6 sel Range Orga Result <49.8	ics (DRO) ((Qualifier DRO) Qualifier Qualifier U	0.00399 RL 49.8 (GC) RL 49.8	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 07/07/25 07:54	07/07/25 16:37 Analyzed 07/07/25 13:22 Analyzed 07/07/25 13:22	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00399 el Range Organ Result 72.6 sel Range Orga Result <49.8 72.6	ics (DRO) ((Qualifier DRO) Qualifier U	0.00399 RL 49.8 (GC) RL 49.8 49.8	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 07/07/25 07:54 07/07/25 07:54	07/07/25 16:37 Analyzed 07/07/25 13:22 Analyzed 07/07/25 13:22 07/07/25 13:22	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00399 el Range Organ Result 72.6 sel Range Orga Result <49.8 <49.8	ics (DRO) ((Qualifier DRO) Qualifier U	0.00399 RL 49.8 (GC) RL 49.8 49.8 49.8	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 07/07/25 07:54 07/07/25 07:54	Analyzed 07/07/25 13:22 Analyzed 07/07/25 13:22 07/07/25 13:22 07/07/25 13:22	Dil Fac

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Client Sample ID: SW - 1

Date Collected: 07/03/25 08:15 Date Received: 07/03/25 13:52

Sample Depth: 0-6

Lab Sample ID: 890-8372-4

Matrix: Solid

Job ID: 890-8372-1

SDG: Lea County, NM

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		9.92	r	mg/Kg			07/07/25 10:32	1

Client Sample ID: SW - 2 Lab Sample ID: 890-8372-5 **Matrix: Solid**

Date Collected: 07/03/25 08:20 Date Received: 07/03/25 13:52

Sample Depth: 0-6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0101	U	0.0101		mg/Kg		07/07/25 09:39	07/07/25 13:42	5
Toluene	<0.0101	U	0.0101		mg/Kg		07/07/25 09:39	07/07/25 13:42	5
Ethylbenzene	<0.0101	U	0.0101		mg/Kg		07/07/25 09:39	07/07/25 13:42	5
m-Xylene & p-Xylene	<0.0202	U	0.0202		mg/Kg		07/07/25 09:39	07/07/25 13:42	5
o-Xylene	<0.0101	U	0.0101		mg/Kg		07/07/25 09:39	07/07/25 13:42	5
Xylenes, Total	<0.0202	U	0.0202		mg/Kg		07/07/25 09:39	07/07/25 13:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				07/07/25 09:39	07/07/25 13:42	5
1,4-Difluorobenzene (Surr)	75		70 - 130				07/07/25 09:39	07/07/25 13:42	5

Total BTEX	<0.0202	U	0.0202	mg	/Kg			07/07/25 13:42	1
— Method: SW846 8015 NM - Diesel R	Range Organ	ics (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL Uni	t	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg,	/Kg	_		07/07/25 13:37	1

MDL Unit

Prepared

Analyzed

Result Qualifier

-		· ·	10.0		9,9			01701720 10101	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/07/25 07:54	07/07/25 13:37	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		07/07/25 07:54	07/07/25 13:37	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/07/25 07:54	07/07/25 13:37	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				07/07/25 07:54	07/07/25 13:37	
o-Terphenyl	109		70 - 130				07/07/25 07:54	07/07/25 13:37	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	142		10.1		mg/Kg			07/07/25 10:38	1

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Dil Fac

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 SDG: Lea County, NM

Project/Site: MULVA

Lab Sample ID: 890-8372-6

Client Sample ID: SW - 3 Date Collected: 07/03/25 08:25 Date Received: 07/03/25 13:52

Matrix: Solid

Sample Depth: 0-6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00992	U	0.00992		mg/Kg		07/07/25 09:39	07/07/25 14:02	5
Toluene	< 0.00992	U	0.00992		mg/Kg		07/07/25 09:39	07/07/25 14:02	5
Ethylbenzene	<0.00992	U	0.00992		mg/Kg		07/07/25 09:39	07/07/25 14:02	5
m-Xylene & p-Xylene	<0.0198	U	0.0198		mg/Kg		07/07/25 09:39	07/07/25 14:02	5
o-Xylene	<0.00992	U	0.00992		mg/Kg		07/07/25 09:39	07/07/25 14:02	5
Xylenes, Total	<0.0198	U	0.0198		mg/Kg		07/07/25 09:39	07/07/25 14:02	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				07/07/25 09:39	07/07/25 14:02	5
1,4-Difluorobenzene (Surr)	83		70 - 130				07/07/25 09:39	07/07/25 14:02	5
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0198	U	0.0198		mg/Kg			07/07/25 14:02	1
Method: SW846 8015 NM - Diese	el Range Organ				mg/rtg			01701720 1 1.02	
Method: SW846 8015 NM - Diese Analyte	Result	ics (DRO) (GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Thethod: SW846 8015 NM - Diese	•	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result <49.7	ics (DRO) ((Qualifier	GC) RL 49.7	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.7 sel Range Orga	ics (DRO) ((Qualifier	GC) RL 49.7	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result <49.7 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.7		Unit mg/Kg			Analyzed 07/07/25 13:52	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <49.7 sel Range Orga	ics (DRO) (Qualifier U nics (DRO) Qualifier U	(GC) RL RL		Unit mg/Kg		Prepared	Analyzed 07/07/25 13:52 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	(GC) RL 49.7 (GC) RL 49.7		Unit mg/Kg Unit mg/Kg		Prepared 07/07/25 07:54	Analyzed 07/07/25 13:52 Analyzed 07/07/25 13:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U	(GC) RL 49.7 (GC) RL 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/07/25 07:54 07/07/25 07:54	Analyzed 07/07/25 13:52 Analyzed 07/07/25 13:52 07/07/25 13:52	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U	GC) RL 49.7 (GC) RL 49.7 49.7 49.7		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/07/25 07:54 07/07/25 07:54 07/07/25 07:54	Analyzed 07/07/25 13:52 Analyzed 07/07/25 13:52 07/07/25 13:52 07/07/25 13:52	Dil Fac 1 1 Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U	GC) RL 49.7 (GC) RL 49.7 49.7 49.7 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/07/25 07:54 07/07/25 07:54 07/07/25 07:54 Prepared	Analyzed 07/07/25 13:52 Analyzed 07/07/25 13:52 07/07/25 13:52 07/07/25 13:52 Analyzed	Dil Fac 1 1 Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/07/25 07:54 07/07/25 07:54 07/07/25 07:54 Prepared 07/07/25 07:54	Analyzed 07/07/25 13:52 Analyzed 07/07/25 13:52 07/07/25 13:52 Analyzed 07/07/25 13:52	Dil Fac 1 1 Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7	ics (DRO) (Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/07/25 07:54 07/07/25 07:54 07/07/25 07:54 Prepared 07/07/25 07:54	Analyzed 07/07/25 13:52 Analyzed 07/07/25 13:52 07/07/25 13:52 Analyzed 07/07/25 13:52	Dil Fac 1 1 1 Dil Fac 1

Job ID: 890-8372-1

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lin
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8372-1	CS - 1	123	77	
890-8372-2	CS - 2	133 S1+	83	
390-8372-3	CS - 3	162 S1+	88	
890-8372-4	SW - 1	114	86	
890-8372-5	SW - 2	151 S1+	75	
890-8372-6	SW - 3	127	83	
LCS 880-113658/1-A	Lab Control Sample	95	93	
LCS 880-113677/1-A	Lab Control Sample	97	100	
LCSD 880-113658/2-A	Lab Control Sample Dup	102	95	
LCSD 880-113677/2-A	Lab Control Sample Dup	99	100	
MB 880-113658/5-A	Method Blank	101	89	
MB 880-113677/5-A	Method Blank	99	85	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8372-1	CS - 1	105	115	
890-8372-2	CS - 2	122	132 S1+	
890-8372-3	CS - 3	120	131 S1+	
890-8372-4	SW - 1	99	105	
890-8372-5	SW - 2	102	109	
890-8372-6	SW - 3	100	106	
LCS 880-113664/2-A	Lab Control Sample	78	77	
LCSD 880-113664/3-A	Lab Control Sample Dup	78	76	
MB 880-113664/1-A	Method Blank	100	102	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

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Released to Imaging: 9/30/2025 3:34:09 PM

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14

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-113658/5-A

Matrix: Solid

Analysis Batch: 113655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113658

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/25 17:24	07/05/25 22:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/25 17:24	07/05/25 22:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/25 17:24	07/05/25 22:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/25 17:24	07/05/25 22:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/25 17:24	07/05/25 22:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/25 17:24	07/05/25 22:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	_	07/05/25 17:24	07/05/25 22:12	1
1,4-Difluorobenzene (Surr)	89		70 - 130		07/05/25 17:24	07/05/25 22:12	1

Lab Sample ID: LCS 880-113658/1-A

Matrix: Solid

Analysis Batch: 113655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113658

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08585		mg/Kg		86	70 - 130	
Toluene	0.100	0.08512		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09616		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1958		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09821		mg/Kg		98	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: LCSD 880-113658/2-A

Matrix: Solid

Analysis Batch: 113655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113658

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09279		mg/Kg		93	70 - 130	8	35	
Toluene	0.100	0.09016		mg/Kg		90	70 - 130	6	35	
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130	4	35	
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	4	35	

LCSD LCSD

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

Lab Sample ID: MB 880-113677/5-A

Matrix: Solid

Analysis Batch: 113674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113677

MB MB Result Qualifier Dil Fac Analyte RL MDL Unit Prepared Analyzed 07/07/25 11:38 <0.00200 U 0.00200 Benzene mg/Kg 07/07/25 09:39 Toluene <0.00200 U 0.00200 mg/Kg 07/07/25 09:39 07/07/25 11:38

Client: Earth Systems Response and Restoration

Project/Site: MULVA

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

Lab Sample ID: MB 880-113677/5-A

Matrix: Solid

Analysis Batch: 113674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113677

Job ID: 890-8372-1

SDG: Lea County, NM

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/25 09:39	07/07/25 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/25 09:39	07/07/25 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/25 09:39	07/07/25 11:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/25 09:39	07/07/25 11:38	1
	Ethylbenzene m-Xylene & p-Xylene o-Xylene	Ethylbenzene <0.00200	Ethylbenzene <0.00200 U m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/25 09:39 m-Xylene & p-Xylene <0.00400	Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/07/25 09:39 07/07/25 11:38 m-Xylene & p-Xylene <0.00400

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/07/25 09:39	07/07/25 11:38	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/07/25 09:39	07/07/25 11:38	1

Lab Sample ID: LCS 880-113677/1-A

Matrix: Solid

Analysis Batch: 113674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113677

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.09360 94 70 - 130 0.100 mg/Kg Toluene 0.100 0.09203 92 70 - 130 mg/Kg Ethylbenzene 0.100 0.1015 102 70 - 130 mg/Kg m-Xylene & p-Xylene 0.200 0.2063 103 70 - 130 mg/Kg o-Xylene 0.100 0.1032 mg/Kg 103 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-113677/2-A

Matrix: Solid

Analysis Batch: 113674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113677

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09427		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.09383		mg/Kg		94	70 - 130	2	35
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2141		mg/Kg		107	70 - 130	4	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	4	35

LCSD LCSD

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

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

Lab Sample ID: MB 880-113664/1-A

Matrix: Solid

Analysis Batch: 113693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113664

мв мв Result Qualifier RL MDL Unit Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 07/07/25 07:54 07/07/25 09:22 mg/Kg (GRO)-C6-C10

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8372-1

SDG: Lea County, NM

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

Lab Sample ID: MB 880-113664/1-A

Matrix: Solid

Analysis Batch: 113693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/07/25 07:54	07/07/25 09:22	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/07/25 07:54	07/07/25 09:22	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/07/25 07:54	07/07/25 09:22	1
o-Terphenyl	102		70 - 130	07/07/25 07:54	07/07/25 09:22	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-113664/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 113693 **Prep Batch: 113664** LCS LCS

Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1248 125 70 - 130 mg/Kg (GRO)-C6-C10 1000 1097 Diesel Range Organics (Over mg/Kg 110 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: LCSD 880-113664/3-A

Matrix: Solid

Analysis Batch: 113693

Client Sample ID: Lab Control Sample Dup

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1234		mg/Kg		123	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1048		mg/Kg		105	70 - 130	5	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 78 70 - 130 o-Terphenyl 76 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-113667/1-A

Matrix: Solid

Analysis Batch: 113676

Client Sample ID: Method Blank

Prep Type: Soluble

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 07/07/25 09:47 mg/Kg

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Prep Type: Total/NA

Prep Batch: 113664

Client: Earth Systems Response and Restoration

Method: 300.0 - Anions, Ion Chromatography (Continued)

Project/Site: MULVA

Job ID: 890-8372-1

SDG: Lea County, NM

Lab Sample ID: LCS 880-113	8667/2-A						Client	Sampl	e ID: Lab C		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 113676			Spike	1.00	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
					Quaimer						
Chloride			250	259.3		mg/Kg		104	90 - 110		
Lab Sample ID: LCSD 880-1	13667/3-A					Clie	nt San	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 113676									•		
_			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	259.9		mg/Kg		104	90 - 110	0	20
Lab Sample ID: 890-8372-1 M	MS								Client Sar	nple ID:	CS - 1
Matrix: Solid										Type: S	
Analysis Batch: 113676										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	96.7	F1	248	401.1	F1	mg/Kg		123	90 - 110		
Lab Sample ID: 890-8372-1 M	MSD								Client Sar	nple ID:	CS - 1
Matrix: Solid										Type: S	
Analysis Batch: 113676									-	71: -	
, , , , , , , , , , , , , , , , , , , ,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	96.7	F1	248	399.4	F1	mg/Kg		122	90 - 110	0	20

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

GC VOA

Analysis Batch: 113655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-2	CS - 2	Total/NA	Solid	8021B	113658
890-8372-3	CS - 3	Total/NA	Solid	8021B	113658
MB 880-113658/5-A	Method Blank	Total/NA	Solid	8021B	113658
LCS 880-113658/1-A	Lab Control Sample	Total/NA	Solid	8021B	113658
LCSD 880-113658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113658

Prep Batch: 113658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-2	CS - 2	Total/NA	Solid	5035	
890-8372-3	CS - 3	Total/NA	Solid	5035	
MB 880-113658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 113674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Total/NA	Solid	8021B	113677
890-8372-4	SW - 1	Total/NA	Solid	8021B	113677
890-8372-5	SW - 2	Total/NA	Solid	8021B	113677
890-8372-6	SW - 3	Total/NA	Solid	8021B	113677
MB 880-113677/5-A	Method Blank	Total/NA	Solid	8021B	113677
LCS 880-113677/1-A	Lab Control Sample	Total/NA	Solid	8021B	113677
LCSD 880-113677/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113677

Prep Batch: 113677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Total/NA	Solid	5035	
890-8372-4	SW - 1	Total/NA	Solid	5035	
890-8372-5	SW - 2	Total/NA	Solid	5035	
890-8372-6	SW - 3	Total/NA	Solid	5035	
MB 880-113677/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113677/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113677/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 113718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Total/NA	Solid	Total BTEX	
890-8372-2	CS - 2	Total/NA	Solid	Total BTEX	
890-8372-3	CS - 3	Total/NA	Solid	Total BTEX	
890-8372-4	SW - 1	Total/NA	Solid	Total BTEX	
890-8372-5	SW - 2	Total/NA	Solid	Total BTEX	
890-8372-6	SW - 3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 113664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Total/NA	Solid	8015NM Prep	
890-8372-2	CS - 2	Total/NA	Solid	8015NM Prep	
890-8372-3	CS - 3	Total/NA	Solid	8015NM Prep	
890-8372-4	SW - 1	Total/NA	Solid	8015NM Prep	

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 113664 (Continued)

Lab Sample ID 890-8372-5	Client Sample ID SW - 2	Prep Type Total/NA	Solid	Method 8015NM Prep	Prep Batch
890-8372-6	SW - 3	Total/NA	Solid	8015NM Prep	
MB 880-113664/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-113664/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-113664/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 113693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Total/NA	Solid	8015B NM	113664
890-8372-2	CS - 2	Total/NA	Solid	8015B NM	113664
890-8372-3	CS - 3	Total/NA	Solid	8015B NM	113664
890-8372-4	SW - 1	Total/NA	Solid	8015B NM	113664
890-8372-5	SW - 2	Total/NA	Solid	8015B NM	113664
890-8372-6	SW - 3	Total/NA	Solid	8015B NM	113664
MB 880-113664/1-A	Method Blank	Total/NA	Solid	8015B NM	113664
LCS 880-113664/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	113664
LCSD 880-113664/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	113664

Analysis Batch: 113725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Total/NA	Solid	8015 NM	
890-8372-2	CS - 2	Total/NA	Solid	8015 NM	
890-8372-3	CS - 3	Total/NA	Solid	8015 NM	
890-8372-4	SW - 1	Total/NA	Solid	8015 NM	
890-8372-5	SW - 2	Total/NA	Solid	8015 NM	
890-8372-6	SW - 3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 113667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Soluble	Solid	DI Leach	
890-8372-2	CS - 2	Soluble	Solid	DI Leach	
890-8372-3	CS - 3	Soluble	Solid	DI Leach	
890-8372-4	SW - 1	Soluble	Solid	DI Leach	
890-8372-5	SW - 2	Soluble	Solid	DI Leach	
890-8372-6	SW - 3	Soluble	Solid	DI Leach	
MB 880-113667/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-113667/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-113667/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8372-1 MS	CS - 1	Soluble	Solid	DI Leach	
890-8372-1 MSD	CS - 1	Soluble	Solid	DI Leach	

Analysis Batch: 113676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8372-1	CS - 1	Soluble	Solid	300.0	113667
890-8372-2	CS - 2	Soluble	Solid	300.0	113667
890-8372-3	CS - 3	Soluble	Solid	300.0	113667
890-8372-4	SW - 1	Soluble	Solid	300.0	113667
890-8372-5	SW - 2	Soluble	Solid	300.0	113667
890-8372-6	SW - 3	Soluble	Solid	300.0	113667

Page 17 of 27

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7/7/2025

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 113676 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-113667/1-A	Method Blank	Soluble	Solid	300.0	113667
LCS 880-113667/2-A	Lab Control Sample	Soluble	Solid	300.0	113667
LCSD 880-113667/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	113667
890-8372-1 MS	CS - 1	Soluble	Solid	300.0	113667
890-8372-1 MSD	CS - 1	Soluble	Solid	300.0	113667

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

Client Sample ID: CS - 1

Date Collected: 07/03/25 08:00 Date Received: 07/03/25 13:52

Lab Sample ID: 890-8372-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	113677	07/07/25 09:39	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	113674	07/07/25 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113718	07/07/25 12:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			113725	07/07/25 12:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	113664	07/07/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113693	07/07/25 12:38	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113667	07/07/25 08:05	SA	EET MID
Soluble	Analysis	300.0		1			113676	07/07/25 10:04	SMC	EET MID

Client Sample ID: CS - 2

Date Collected: 07/03/25 08:05 Date Received: 07/03/25 13:52

Lab Sample ID: 890-8372-2

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.96 g 5 mL 113658 07/05/25 17:24 MNR EET MID Total/NA 8021B 5 mL 07/06/25 03:12 **EET MID** Analysis 100 5 mL 113655 MNR Total/NA Total BTEX 113718 07/06/25 03:12 Analysis SA **EET MID** 1 Total/NA Analysis 8015 NM 113725 07/07/25 12:53 SA **EET MID** Total/NA 07/07/25 07:54 EL Prep 8015NM Prep 10.03 g 10 mL 113664 EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 113693 07/07/25 12:53 TKC **EET MID** Soluble 07/07/25 08:05 Leach DI Leach 4.98 g 50 mL 113667 SA EET MID Soluble Analysis 300.0 113676 07/07/25 10:21 SMC **EET MID**

Client Sample ID: CS - 3

Date Collected: 07/03/25 08:10 Date Received: 07/03/25 13:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	113658	07/05/25 17:24	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	113655	07/06/25 03:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113718	07/06/25 03:33	SA	EET MID
Total/NA	Analysis	8015 NM		1			113725	07/07/25 13:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	113664	07/07/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113693	07/07/25 13:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113667	07/07/25 08:05	SA	EET MID
Soluble	Analysis	300.0		1			113676	07/07/25 10:26	SMC	EET MID

Client Sample ID: SW - 1

Lab Sample ID: 890-8372-4 Date Collected: 07/03/25 08:15 Matrix: Solid Date Received: 07/03/25 13:52

Г										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	113677	07/07/25 09:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113674	07/07/25 16:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113718	07/07/25 16:37	SA	EET MID

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Matrix: Solid

Lab Sample ID: 890-8372-3

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Lab Sample ID: 890-8372-4

Matrix: Solid

Job ID: 890-8372-1

SDG: Lea County, NM

Client Sample ID: SW - 1 Date Collected: 07/03/25 08:15 Date Received: 07/03/25 13:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			113725	07/07/25 13:22	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	113664	07/07/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113693	07/07/25 13:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113667	07/07/25 08:05	SA	EET MID
Soluble	Analysis	300.0		1			113676	07/07/25 10:32	SMC	EET MID

Client Sample ID: SW - 2 Lab Sample ID: 890-8372-5 Date Collected: 07/03/25 08:20 **Matrix: Solid**

Date Received: 07/03/25 13:52

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 4.96 g 5 mL 113677 07/07/25 09:39 MNR **EET MID** Total/NA Analysis 8021B 5 5 mL 5 mL 113674 07/07/25 13:42 MNR **EET MID** Total/NA Total BTEX 07/07/25 13:42 **EET MID** Analysis 1 113718 SA Total/NA Analysis 8015 NM 113725 07/07/25 13:37 **EET MID** SA Total/NA Prep 8015NM Prep 10.04 g 10 mL 113664 07/07/25 07:54 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 113693 07/07/25 13:37 TKC **EET MID** Soluble Leach DI Leach 4.96 g 50 mL 113667 07/07/25 08:05 SA EET MID Soluble Analysis 300.0 1 113676 07/07/25 10:38 SMC **EET MID**

Client Sample ID: SW - 3 Lab Sample ID: 890-8372-6

Date Collected: 07/03/25 08:25 Date Received: 07/03/25 13:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	113677	07/07/25 09:39	MNR	EET MID
Total/NA	Analysis	8021B		5	5 mL	5 mL	113674	07/07/25 14:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113718	07/07/25 14:02	SA	EET MID
Total/NA	Analysis	8015 NM		1			113725	07/07/25 13:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	113664	07/07/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113693	07/07/25 13:52	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113667	07/07/25 08:05	SA	EET MID
Soluble	Analysis	300.0		1			113676	07/07/25 10:55	SMC	EET MID

Laboratory References:

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

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Matrix: Solid

Page 20 of 27 Released to Imaging: 9/30/2025 3:34:09 PM

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8372-1 Project/Site: MULVA SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date 06-30-26	
Texas	NELA	Р	T104704400		
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
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: MULVA

Job ID: 890-8372-1 SDG: Lea County, NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 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

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3

4

6

9

11

12

890-8372-6

Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

SW - 3

Job ID: 890-8372-1 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8372-1	CS - 1	Solid	07/03/25 08:00	07/03/25 13:52	6
890-8372-2	CS - 2	Solid	07/03/25 08:05	07/03/25 13:52	6
890-8372-3	CS - 3	Solid	07/03/25 08:10	07/03/25 13:52	6
890-8372-4	SW - 1	Solid	07/03/25 08:15	07/03/25 13:52	0-6
890-8372-5	SW - 2	Solid	07/03/25 08:20	07/03/25 13:52	0-6

07/03/25 08:25

07/03/25 13:52 0-6

Solid

3

4

5

7

8

3

11

12

Relinquished by: (Signature)

Received by: (Signature)

713

352

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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Environment Testing

13 14

Chain of Custody

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

Work Order No:

www.xenco.com Page of
Work Order Comments
Program: UST/PST☐ PRP☐ Brownfield◀☐ RRd☐ Superfund☐
State of Project:
Reporting: Level III ☐ Level III ☐ PST/UST ☐ TRRP☐ Level N☐
Deliverables: EDD ADaPT Other:

32-541- 3EIPT Jad Intact: Ye Seals: Ye	Mulva P- 210 County P- 210 In More	Email Iva 210 Correction Factor: NIA Due Date: TAT starts the recommender ID: NIA Temperature Reading:	Turn Arou Turn Arou ine Rust te: 24 is the day received by 4::	o@earthsys.net ind Pres. 30pm Parameters Parameters	a dameters					n 889	890-8372 0		hain of Custody	Deliverables				H ₂ S Na Na Na Na	Press None: NO Cool: Cool HCL: HC H ₂ So ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : N Na ₂ S ₂ O ₃ : N	Preservative Codes None: NO Di Water: I 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 NaSO ₃ Zn Acctate+NaSO ₃ Zn Acctate+NaSO ₁ : Acctate	. 才 55 岳
res	Matrix	Corrected Temperature: Date Sampled Sampled	ne Depth (feet)	Comp # of	Cont TPH		Chloride	BTEX	TDS	Cation/ Anion	TCLP-Metals	TCLP- BTEX	TCLP- RCI	Hold	24 Hr Rush					NaOH	NaOH+Ascorbic Acid: SAPC Sample Comments
CS-1	S 7.3		00	Comp 1	+	+		××		\perp		+	+		××						Incident Number
CS-3	+	7.3.2025 8:10		Comp 1		××	× >	× >	_			-	-		× >						וארד.
SW-1	S 7.3.		15 0-6	Comp 1	_	×	×	×							×						
SW-2	S 7.3.		20 0-6	Comp 1		×	×	×							×						
SW-3	\$ 7.3.	7.3.2025 8:25	25 0-6	Comp 1		×	×	×							×				_		
					+		-			\perp	+	4	+								
Total 200.7 / 6010 200.8	200.8 / 6020:	8RCRA	A 13PPM Texas 11	s 11 Al Sb As		Ba Be	В∥	Cd Ca		8	Cr Co Cu Fe	공	Mg M	Mn Mo Ni K Se	<u> </u>	se Ag	SiO ₂	Na	11	Sr Ti	Sr Tl Sn U V Zn
ircle Method(s) and Metal(s) to be analyzed	o be analyzed																Ħg:	1631	~	245.1	Hg: 1631 / 245.1 / 7470 / 747
otice: 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 researched by the client if such losses are due to circumstances beyond the control	elinquishment of sam	ples constitutes mples and shall i	a valid purchase order fr not assume any respons	rom client compa	iny to E	expens	Xenco es incu	, its affi	iliates a	ind sub ent if si	contrac	tors. It	assigns :	standard 1	erms ar	id condi	itions				
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 negoniated.	\$85.00 will be applied	d to each project	and a charge of \$5 for e	ach sample subn	nitted t	o Eurot	ins Xer	co, but	not an	alyzed.	i hese t	erms wi	II be ente	orced unie	ss previ	ously n	egoriare	٩			

PO/WO#: Sampler's Name: Project Number:

Phone:

832-541-7719 Carlsbad, NM, 88220

City, State ZIP:

Company Name: Bill to: (if different)

Earth Systems R & R

City, State ZIP:

Project Manager

Company Name:

Earth Systems R&R Gilbert Moreno

1910 Resource Ct.

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Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 5 **Chain of Custody Record**

ormation (Sub Contract Lab)	Sampler: N/A			Lab PM: Teel, B	Lab PM: Teel Brianna		١						ı	١	1	ı	ı					
					2	a					3 0	Carrier Tracking No(s) N/A	Trackir	yoN Q	پ			890	890-5345.1			
Shipping/Receiving	Phone: N/A			E-Mail: Briant	E-Mail: Brianna.Teel@et.eurofinsus.com	el@et	eurof	insus	com		7 (0	State of Origin: New Mexico	Origin	٠				Page:	Page: Page 1 of 1			
Company: Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	tations P - Te	Require	d (See	note):									968 19. P	Job #: 890-8372-1			
	Due Date Requested: 7/7/2025	*							Analysis	/sis	Requested	este	<u> </u>					· Pag	Preservation Codes:	Code	Ġ.	
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State, Zip: TX, 79701																	Tela!					
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp,	Matrix (Wewater, Smeolid, Omwassiolid,	ield Filtered Perform MS/N	8015MOD_NM/8	015MOD_Calc	00_ORGFM_28	otal_BTEX_G								otal Number		8		Special Instructions (Note:	
	\bigvee	X	Preservat	Preservation Code:	$\stackrel{>}{ m \times}$			F				100					X		1	V		
CS - 1 (890-8372-1)	7/3/25	08:00 Mountain	မ	Solid		×	×	×	×								-					
CS - 2 (890-8372-2)	7/3/25	08:05 Mountain	G	Solid		×	×	×	×			_					_					
CS - 3 (890-8372-3)	7/3/25	08:10 Mountain	G	Solid		×	×	×	×								1					
SW - 1 (890-8372-4)	7/3/25	08:15 Mountain	G	Solid		×	×	×	×			-	-	\dashv			-					
SW - 2 (890-8372-5)	7/3/25	08:20 Mountain	G	Solid		×	×	×	×				-				_					
SW - 3 (890-8372-6)	7/3/25	08:25 Mountain	G	Solid		×	×	×	×					+			-					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC alternton 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.	esting South Central for analysis/tests/rr I, LLC attention imm	LLC places t natrix being ar nediately. If al	he ownership nalyzed, the sa	of method, ana imples must be creditations are	yte & ac shipped current	credital back to to date	ion con the Eu	npliancurofins I	e upon Environ ned Ch	our sub	ocontra esting Custody	ct labor	ratories Central	said co	samp	le shii	other	instru	varded und ctions will t	ler cha xe prov	in-of-custody. If ided. Any chang	f the ges to
Possible Hazard Identification Unconfirmed					Sa	∏ _{Re}	ole Disposal (A f	sal (A fee	may	be as	assessed if san Disposal By Lab	By	samp	les a		tain	tained long Archive For	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	5 1 2	month) Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	ble Rank: 2			Sp	ecial I	nstruc	tions/	Special Instructions/QC Requirements:	equire	ment	S.										
Empty Kit Relinquished by:	Date/Tirpe: 2	Date:	20	Company	Time:	Recei	Received by:	0		7	.\	3	Method of Shipment: Date/Time	of Ship	Shipment: Date/Time:	9	11				Company	
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Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			Ž.			Coole		A ture	Cooler Temperature(s) °C and Other Remarks:	nd Oth	er Rem	arks:	1	1	8-8	Y			10	1		

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8372-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8372 List Number: 1

Creator: Bruns, Shannon

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: 890-8372-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 07/05/25 05:16 PM

List Number: 2 Creator: Rios, Minerva

Login Number: 8372

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	N/A	

Euronnis Carisbau

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/18/2025 6:48:32 PM

JOB DESCRIPTION

MULVA 210

JOB NUMBER

890-8466-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 7/18/2025 6:48:32 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Earth Systems Response and Restoration Project/Site: MULVA

Laboratory Job ID: 890-8466-1 SDG: 210

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receint Checklists	18

Definitions/Glossary

Job ID: 890-8466-1 Client: Earth Systems Response and Restoration Project/Site: MULVA

SDG: 210

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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 Colony Forming Unit CFU **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) Limit of Quantitation (DoD/DOE) LOQ

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

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

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

TNTC Too Numerous To Count

Job ID: 890-8466-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: MULVA

Job ID: 890-8466-1 Eurofins Carlsbad

Job Narrative 890-8466-1

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 7/17/2025 4:14 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW - 4 (890-8466-1).

GC VOA

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

Diesel Range Organics

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: MULVA

Job ID: 890-8466-1

SDG: 210

Lab Sample ID: 890-8466-1

Matrix: Solid

Client Sample ID: SW - 4

Date Collected: 07/17/25 09:30 Date Received: 07/17/25 16:14

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/25 08:13	07/18/25 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/25 08:13	07/18/25 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				07/18/25 08:13	07/18/25 11:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130				07/18/25 08:13	07/18/25 11:39	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/18/25 11:39	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/18/25 09:42	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		07/18/25 08:49	07/18/25 09:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/18/25 08:49	07/18/25 09:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/18/25 08:49	07/18/25 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/18/25 08:49	07/18/25 09:42	1
o-Terphenyl	85		70 - 130				07/18/25 08:49	07/18/25 09:42	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8466-1	SW - 4	113	90	
890-8466-1 MS	SW - 4	99	98	
890-8466-1 MSD	SW - 4	103	99	
LCS 880-114431/1-A	Lab Control Sample	95	106	
LCSD 880-114431/2-A	Lab Control Sample Dup	97	101	
MB 880-114431/5-A	Method Blank	104	88	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8466-1	SW - 4	86	85	
_CS 880-114333/2-A	Lab Control Sample	128	109	
LCSD 880-114333/3-A	Lab Control Sample Dup	104	109	
MB 880-114333/1-A	Method Blank	126	122	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114431/5-A

Lab Sample ID: LCS 880-114431/1-A

Matrix: Solid

Matrix: Solid

o-Xylene

Analysis Batch: 114434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114431

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1 1 1

MB MB

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	70 - 130	07/18/25 08:13	07/18/25 11:17	1
1,4-Difluorobenzene (Surr)	88	70 - 130	07/18/25 08:13	07/18/25 11:17	1

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA

Prep Batch: 114431

Analysis Batch: 114434 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09026 mg/Kg 90 70 - 130 Toluene 0.100 0.08400 mg/Kg 84 70 - 130 0.100 0.09493 95 Ethylbenzene mg/Kg 70 - 130 0.200 0.1883 94 70 - 130 m-Xylene & p-Xylene mg/Kg

0.09396

mg/Kg

0.100

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-114431/2-A

Matrix: Solid

Analysis Batch: 114434

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

Prep Batch: 114431

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09697		mg/Kg		97	70 - 130	7	35	
Toluene	0.100	0.09229		mg/Kg		92	70 - 130	9	35	
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35	
m-Xylene & p-Xylene	0.200	0.2081		mg/Kg		104	70 - 130	10	35	
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 890-8466-1 MS

Matrix: Solid

Analysis Batch: 114434

Client Sample ID: SW - 4 Prep Type: Total/NA

Prep Batch: 114431

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09499		mg/Kg		95	70 - 130	
Toluene	<0.00200	U	0.100	0.08953		mg/Kg		90	70 - 130	

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Page 8 of 19

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Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

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

Lab Sample ID: 890-8466-1 MS

Matrix: Solid

Analysis Batch: 114434

Client Sample ID: SW - 4

Prep Type: Total/NA

Prep Batch: 114431

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.09731		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1907		mg/Kg		95	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09410		mg/Kg		94	70 - 130	
0-Aylerie	\0.00200	U	0.100	0.09410		mg/Rg		34	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Client Sample ID: SW - 4

Prep Type: Total/NA

Prep Batch: 114431

Lab Sample ID: 890-8466-1 MSD **Matrix: Solid**

Analysis Batch: 114434

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09366		mg/Kg		94	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08801		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09609		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1891		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.09320		mg/Kg		93	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-114333/1-A

Matrix: Solid

Analysis Batch: 114421

Client	t Samp	le ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 114333

	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		07/17/25 10:49	07/18/25 01:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	07/17/25 10	749 07/18/25 01:33	1
o-Terphenyl	122		70 - 130	07/17/25 10	49 07/18/25 01:33	1

Lab Sample ID: LCS 880-114333/2-A

Matrix: Solid

Analysis Batch: 114421

Client S	ample ID	D: Lab C	Control S	Sample
----------	----------	----------	-----------	--------

Prep Type: Total/NA

Prep Batch: 114333

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1090		mg/Kg		109	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1006		mg/Kg		101	70 - 130	
C10-C28)								

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

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

109

109

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Lab Sample ID: LCS 880-114333/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 114421 **Prep Batch: 114333**

70 - 130

70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 128 70 - 130

Lab Sample ID: LCSD 880-114333/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 114421 Prep Batch: 114333

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1035 104 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1070 107 mg/Kg 70 - 1306 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 104

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114427/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 114439

o-Terphenyl

C10-C28)

o-Terphenyl

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 10.0 <10.0 U mg/Kg 07/18/25 08:43

Lab Sample ID: LCS 880-114427/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 114439

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.1 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-114427/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 114439

Released to Imaging: 9/30/2025 3:34:09 PM

Spike LCSD LCSD %Rec Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 253.0 101 90 - 110 20 mg/Kg

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RPD

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

GC VOA

Prep Batch: 114431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8466-1	SW - 4	Total/NA	Solid	5035	
MB 880-114431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8466-1 MS	SW - 4	Total/NA	Solid	5035	
890-8466-1 MSD	SW - 4	Total/NA	Solid	5035	

Analysis Batch: 114434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8466-1	SW - 4	Total/NA	Solid	8021B	114431
MB 880-114431/5-A	Method Blank	Total/NA	Solid	8021B	114431
LCS 880-114431/1-A	Lab Control Sample	Total/NA	Solid	8021B	114431
LCSD 880-114431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114431
890-8466-1 MS	SW - 4	Total/NA	Solid	8021B	114431
890-8466-1 MSD	SW - 4	Total/NA	Solid	8021B	114431

Analysis Batch: 114510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8466-1	SW - 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-8466-1	SW - 4	Total/NA	Solid	8015NM Prep
MB 880-114333/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-114333/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-114333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

Analysis Batch: 114421

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-	-8466-1	SW - 4	Total/NA	Solid	8015B NM	114333
MB	880-114333/1-A	Method Blank	Total/NA	Solid	8015B NM	114333
LCS	8 880-114333/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114333
LCS	SD 880-114333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114333

Analysis Batch: 114483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8466-1	SW - 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8466-1 MB 880-114427/1-A	SW - 4 Method Blank	Soluble Soluble	Solid Solid	DI Leach DI Leach	
LCS 880-114427/2-A LCSD 880-114427/3-A	Lab Control Sample Lab Control Sample Dup	Soluble Soluble	Solid	DI Leach	

Analysis Batch: 114439

Released to Imaging: 9/30/2025 3:34:09 PM

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8466-1	SW - 4	Soluble	Solid	300.0	114427

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Page 11 of 19

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

HPLC/IC (Continued)

Analysis Batch: 114439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-114427/1-A	Method Blank	Soluble	Solid	300.0	114427
LCS 880-114427/2-A	Lab Control Sample	Soluble	Solid	300.0	114427
LCSD 880-114427/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114427

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8466-1

SDG: 210

Client Sample ID: SW - 4

Lab Sample ID: 890-8466-1 Date Collected: 07/17/25 09:30

Matrix: Solid

Date Received: 07/17/25 16:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114431	07/18/25 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114434	07/18/25 11:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114510	07/18/25 11:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			114483	07/18/25 09:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114333	07/18/25 08:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114421	07/18/25 09:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114427	07/18/25 08:04	SA	EET MID
Soluble	Analysis	300.0		1			114439	07/18/25 10:25	CS	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: MULVA

Job ID: 890-8466-1

SDG: 210

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: MULVA

Job ID: 890-8466-1

SDG: 210

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
3015B 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
3015NM 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: MULVA

Job ID: 890-8466-1

SDG: 210

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8466-1	SW - 4	Solid	07/17/25 09:30	07/17/25 16:14	0-4

Relinquished by: (Signature)

wed by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

222

PO ₄ . P		Yes No	Wet Ice:	Temp Blank: Yes No	SAMPLE RECEIPT
S04: H		received by 4:30pm	- - -		CC/WO#:
i i i i		TAT starts the day received by the lab, if	TAT starts th	Santiago Giron	Sampler's Name:
Vol. Co		Rush TAT	Due Date:	Lea County, NM	Project Location:
None: No		Rush Code	☐ Routine	210	Project Number:
REQUEST	ANALYSIS REQUEST	Turn Around		Mulva	Project Name:
Deliverables: EDD		Email: gmoreno@earthsys.net	Emai	832-541-7719	Phone: 832
Level III		City, State ZIP:		Carlsbad, NM, 88220	City, State ZIP: Car
State of Project:		Address:		1910 Resource Ct.	Address: 19
Program: UST/PST 🗌 PRP 🗌 Brownfields 🗌	Earth Systems	Company Name:		Earth Systems R&R	Company Name: Ear
Work Order Commen		Bill to: (if different)		Gilbert Moreno	Project Manager: Gill
www.xenco.com Page	Hobbs, NM (575) 392-7550, Cansbad, NM (575) 988-3199	Hobbs, NM (575			
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX (91)		Xenco	
Work Order No:	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Cha Houston, TX (28 Midland, TX (432)	esting		eurofins

State of Project:	Program: UST/PST 🗌 PRP 🔲 Brownfields 🗌 RRC 🔲 Superfund	Work Order Comments	www.xenco.com Page (of /	ANGIN CIGGI NO.

Total 200.7 / 6010 200.8 / 6020: BRCRA 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						SW-4 S 7.17.25 9:30 0-4 Comp 1 X X X X	Sample Identification Matrix Date Time Sampled Sampled Depth (feet) Comp #C PH Comp HC	Л	Sample Custody Seals: Yes No (N/A Tephperature Reading:		Thermometer ID: (Unico)	SAMPLE RECEIPT Jamp Blank: (Yes No Wet Ice: Yes No g	received by 4:30pm	Sampler's Name: Santiago Giron TAT starts the day received by the lab, if	Project Location: Lea County, NM Due Date: Rush TAT (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Project Number: 210 Routine Rush Code Pres.	Project Name: Mulva Turn Around ANALYSIS REQUEST	Phone: 832-541-7719 Email: gmoreno@earthsys.net Deliverables: EDD L /	City, State ZIP: Carlsbad, NM, 88220 City, State ZIP:	
Circle Method(s) and Metal(s) to be analyzed	Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn				nAPP2509160854	Incident Number	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn-Acetate+NaOH: Zn	₁₂ S ₂ O ₃ : NaSO ₃		PO4: HP	SO ₄ : H ₂ NaOH: Na	IL: HC HNO3: HN	ol: Cool MeOH: Me	None: NO DI Water: H ₂ O	YSIS REQUEST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting: Level II	•

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8466-1

SDG Number: 210

Login Number: 8466 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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	

Released to Imaging: 9/30/2025 3:34:09 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8466-1

SDG Number: 210

Login Number: 8466 **List Source: Eurofins Midland** List Number: 2 List Creation: 07/18/25 08:05 AM

Creator: Laing, Edmundo

<6mm (1/4").

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
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	N/A	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/18/2025 6:48:32 PM

JOB DESCRIPTION

MULVA 210

JOB NUMBER

890-8467-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 7/18/2025 6:48:32 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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13

Client: Earth Systems Response and Restoration Project/Site: MULVA

Laboratory Job ID: 890-8467-1 SDG: 210

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receint Checklists	17

2

3

4

6

8

10

11

12

Definitions/Glossary

Job ID: 890-8467-1 Client: Earth Systems Response and Restoration Project/Site: MULVA

SDG: 210

Qualifiers

GC VOA Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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 Colony Forming Unit CFU **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) Limit of Quantitation (DoD/DOE) LOQ

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8467-1

Project: MULVA

Job ID: 890-8467-1 Eurofins Carlsbad

Job Narrative 890-8467-1

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 7/17/2025 4:18 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 -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW - 5 (890-8467-1).

GC VOA

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

Diesel Range Organics

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

Job ID: 890-8467-1 SDG: 210

Project/Site: MULVA

Lab Sample ID: 890-8467-1

Client Sample ID: SW - 5 Date Collected: 07/17/25 09:35 Date Received: 07/17/25 16:18

Matrix: Solid

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/25 08:13	07/18/25 11:59	
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/25 08:13	07/18/25 11:59	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/25 08:13	07/18/25 11:59	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/25 08:13	07/18/25 11:59	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/25 08:13	07/18/25 11:59	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/25 08:13	07/18/25 11:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130				07/18/25 08:13	07/18/25 11:59	
1,4-Difluorobenzene (Surr)	102		70 - 130				07/18/25 08:13	07/18/25 11:59	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/18/25 11:59	,
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH -	<49.9	U	49.9		mg/Kg			07/18/25 09:58	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/18/25 08:49	07/18/25 09:58	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/18/25 08:49	07/18/25 09:58	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/18/25 08:49	07/18/25 09:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	87		70 - 130				07/18/25 08:49	07/18/25 09:58	
o-Terphenyl	83		70 - 130				07/18/25 08:49	07/18/25 09:58	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8467-1

SDG: 210

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8467-1	SW - 5	92	102	
LCS 880-114431/1-A	Lab Control Sample	95	106	
LCSD 880-114431/2-A	Lab Control Sample Dup	97	101	
MB 880-114431/5-A	Method Blank	104	88	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1.4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8467-1	SW - 5	87	83	
LCS 880-114333/2-A	Lab Control Sample	128	109	
LCSD 880-114333/3-A	Lab Control Sample Dup	104	109	
MB 880-114333/1-A	Method Blank	126	122	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8467-1

SDG: 210

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114431/5-A

Lab Sample ID: LCS 880-114431/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 114434

Analysis Batch: 114434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114431

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/25 08:13	07/18/25 11:17	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/25 08:13	07/18/25 11:17	1
1.4-Difluorobenzene (Surr)	88		70 - 130	07/18/25 08:13	07/18/25 11:17	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114431

Prep Type: Total/NA

Prep Batch: 114431

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09026 mg/Kg 90 70 - 130 Toluene 0.100 0.08400 mg/Kg 84 70 - 130 0.100 0.09493 95 Ethylbenzene mg/Kg 70 - 130 0.200 0.1883 94 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09396 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-114431/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 114434

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09697		mg/Kg		97	70 - 130	7	35
Toluene	0.100	0.09229		mg/Kg		92	70 - 130	9	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2081		mg/Kg		104	70 - 130	10	35
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

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Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8467-1

SDG: 210

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

Lab Sample ID: MB 880-114333/1-A

Matrix: Solid

Analysis Batch: 114421

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114333

	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		07/17/25 10:49	07/18/25 01:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1
		MB							
Surrogate	%Recovery	Qualitier	Limits				Prepared	Analvzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-114333/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

1-Chlorooctane

o-Terphenyl

Analysis Batch: 114421

Prep Type: Total/NA

07/18/25 01:33

07/18/25 01:33

07/17/25 10:49

07/17/25 10:49

Prep Batch: 114333

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 128 70 - 130 o-Terphenyl 109 70 - 130

126

122

Lab Sample ID: LCSD 880-114333/3-A

Matrix: Solid

Analysis Batch: 114421

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114333

LCSD LCSD RPD Spike %Rec Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Gasoline Range Organics 1000 1035 mg/Kg 104 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1070 mg/Kg 107 70 - 130 20 C10-C28)

LCSD LCSD Qualifier %Recovery Limits Surrogate 70 - 130 1-Chlorooctane 104 109 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114427/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 114439

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/18/25 08:43	1

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8467-1

SDG: 210

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114427/2-A

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 114439

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 251.1 mg/Kg

250

100 90 - 110

Client Sample ID: Lab Control Sample Dup

90 - 110

101

Lab Sample ID: LCSD 880-114427/3-A

Matrix: Solid

Analyte

Chloride

Analys

sis Batch: 114439									
	Spike	LCSD LCSD				%Rec		RPD	
a a company of the co	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	

253.0

mg/Kg

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8467-1

SDG: 210

GC VOA

Prep Batch: 114431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8467-1	SW - 5	Total/NA	Solid	5035	
MB 880-114431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8467-1	SW - 5	Total/NA	Solid	8021B	114431
MB 880-114431/5-A	Method Blank	Total/NA	Solid	8021B	114431
LCS 880-114431/1-A	Lab Control Sample	Total/NA	Solid	8021B	114431
LCSD 880-114431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114431

Analysis Batch: 114511

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
l	890-8467-1	SW - 5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8467-1	SW - 5	Total/NA	Solid	8015NM Prep	
MB 880-114333/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114333/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114421

Lab Sample ID 890-8467-1	Client Sample ID SW - 5	Prep Type Total/NA	Solid	Method 8015B NM	Prep Batch 114333
MB 880-114333/1-A	Method Blank	Total/NA	Solid	8015B NM	114333
LCS 880-114333/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114333
LCSD 880-114333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114333

Analysis Batch: 114484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8467-1	SW - 5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8467-1	SW - 5	Soluble	Solid	DI Leach	
MB 880-114427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114427/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 114439

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-8467-1	SW - 5	Soluble	Solid	300.0	114427	
MB 880-114427/1-A	Method Blank	Soluble	Solid	300.0	114427	
LCS 880-114427/2-A	Lab Control Sample	Soluble	Solid	300.0	114427	
LCSD 880-114427/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114427	

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8467-1 SDG: 210

Client Sample ID: SW - 5

Lab Sample ID: 890-8467-1

Matrix: Solid

Date Collected: 07/17/25 09:35 Date Received: 07/17/25 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114431	07/18/25 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114434	07/18/25 11:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114511	07/18/25 11:59	SA	EET MID
Total/NA	Analysis	8015 NM		1			114484	07/18/25 09:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114333	07/18/25 08:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114421	07/18/25 09:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114427	07/18/25 08:04	SA	EET MID
Soluble	Analysis	300.0		1			114439	07/18/25 10:31	CS	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: MULVA

Job ID: 890-8467-1

SDG: 210

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date				
Texas	NELAI	NELAP T104704400 06-30-26						
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes				
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: MULVA

Job ID: 890-8467-1

SDG: 210

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

Eurofins Carlsbad

14

Sample Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8467-1

Project/Site: MULVA SDG: 210

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8467-1	SW - 5	Solid	07/17/25 09:35	07/17/25 16:18	0-4

(Signature)

Received by: (Signature) XXX

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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Xenco

Environment Testing

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Chain of Custody

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

State of Project:	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfur	Work Order Comments	www.xenco.com Page / of /	Work Order No:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenčo, its affiliates and subcontractors.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010								SW-5	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	CC/WO #:	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone: 832-	City, State ZIP: Carl	Address: 1910	Company Name: Eart	Project Manager: Gilb
nent and relinguishme	etal(s) to be ana	200.8 / 6020:								S	ation Matrix		Yes No WIA	Yes No (N/A	(Yes /No	Temp Blank:		Santiago Giron	Lea County, NM	210	Mulva	832-541-7719	Carlsbad, NM, 88220	1910 Resource Ct.	Earth Systems R&R	Gilbert Moreno
and of common co	alyzed			-						7.17.25	Date rix Sampled	Corrected 7	A Temperature Reading:	Cprrection Factor:	2	Yes No.		Siron	, NM				0			
		8RCRA								9:35	Time Sampled	Corrected Temperature:	re Reading:	Factor:	ter ID:	7 Wet Ice:	rece	TAT starts the	Due Date:	Routine	T	Email:				
		13PPM Texas 11								0-4	Depth (feet)	.0.	Ø	-0.2	wave	(Yes / No	received by 4:30pm	TAT starts the day received by the lab, if	Rush TAT	☑ Rush	Turn Around	Email: gmoreno@earthsys.net	City, State ZIP:	Address:	Company Name	Bill to: (if different)
11 4		≥∥				-				Comp 1	Grab/ of Comp #	٢		P:	V	nete		ne lab, if		Code		thsys.net			*	5
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ntractors		Su Fe	H	+	+	+	+	+						-			-	-	-		ANALYS					
-		Pb Mg	H		+	+	\dagger						-	_		890-8467				-	YSIS REQUEST					
t assigns standard terms and conditions		Mn Mo		1	1									_		2070				_	UEST	Delive	Repor	State	Progr	
rd torm		Z.													101							Deliverables: EDD	ting: Le	State of Project:	am: US	
and con		K Se				-		-							Chair of Custody							EDD	vel II	ect:	Program: UST/PST	
ditions	1	Ag SiO ₂	H	4	4	+	+	-		_				_						_]Level I			Work
	g: 1631	O ₂ Na	H	+	+	+	+	+	-				+	-								ADa	E P		Bro	Order
	Hg: 1631 / 245.1 / 7470	Sr Tl Sn U							nAPP:	Incide	Sample	NaOH+Ascor	Zn Acetate+NaOH: Zn	2S2O3: NaSO3	HSO ₄ : NABIS	04: HP	0 ₄ : H ₂	: HC	1: Cool	None: NO	Presen	ADaPT L Other:	Reporting: Level II		PRP Brownfields RRC	Work Order Comments
) /7471	V Zn							nAPP2509160854	Incident Number	Sample Comments	NaOH+Ascorbic Acid: SAPC	laOH: Zn	503	BIS		NaOH: Na	HNO ₃ : HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes	er:	RP		C ☐ Superfund [
				_					1		Pag									_						

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8467-1 SDG Number: 210

Login Number: 8467 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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	

1

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8467-1

SDG Number: 210

Login Number: 8467
List Source: Eurofins Midland
List Number: 2
List Creation: 07/18/25 08:05 AM

Creator: Laing, Edmundo

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	N/A	

-

Eurofins Carlsbad

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/18/2025 6:48:55 PM

JOB DESCRIPTION

MULVA 210

JOB NUMBER

890-8468-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 7/18/2025 6:48:55 PM

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

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Client: Earth Systems Response and Restoration Project/Site: MULVA

Laboratory Job ID: 890-8468-1 SDG: 210

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

1

2

3

4

6

8

10

11

13

14

Definitions/Glossary

Job ID: 890-8468-1 Client: Earth Systems Response and Restoration Project/Site: MULVA

SDG: 210

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

Colony Forming Unit CFU **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

Decision Level Concentration (Radiochemistry) DLC

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

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 Method Quantitation Limit MQL

Not Calculated NC

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Job ID: 890-8468-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: MULVA

Job ID: 890-8468-1 Eurofins Carlsbad

Job Narrative 890-8468-1

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 7/17/2025 4:18 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 -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS - 4 (890-8468-1).

GC VOA

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

Diesel Range Organics

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

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Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

Matrix: Solid

Lab Sample ID: 890-8468-1

Client Sample ID: CS - 4

Date Collected: 07/17/25 09:40

Date Received: 07/17/25 16:18

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/25 08:13	07/18/25 12:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/25 08:13	07/18/25 12:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/25 08:13	07/18/25 12:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/18/25 08:13	07/18/25 12:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/25 08:13	07/18/25 12:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/18/25 08:13	07/18/25 12:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				07/18/25 08:13	07/18/25 12:20	
1,4-Difluorobenzene (Surr)	102		70 - 130				07/18/25 08:13	07/18/25 12:20	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/18/25 12:20	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/18/25 10:14	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		07/18/25 08:49	07/18/25 10:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/25 08:49	07/18/25 10:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/25 08:49	07/18/25 10:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/18/25 08:49	07/18/25 10:14	1
o-Terphenyl	88		70 - 130				07/18/25 08:49	07/18/25 10:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•							•	-	

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8468-1	CS - 4	100	102	
LCS 880-114431/1-A	Lab Control Sample	95	106	
LCSD 880-114431/2-A	Lab Control Sample Dup	97	101	
MB 880-114431/5-A	Method Blank	104	88	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8468-1	CS - 4	91	88	
LCS 880-114333/2-A	Lab Control Sample	128	109	
LCSD 880-114333/3-A	Lab Control Sample Dup	104	109	
MB 880-114333/1-A	Method Blank	126	122	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114431/5-A

Lab Sample ID: LCS 880-114431/1-A

Lab Sample ID: LCSD 880-114431/2-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 114434

Analysis Batch: 114434

Analysis Batch: 114434

Client Sample ID: Method Blank

Prep	Type: Total/NA
Pre	Batch: 114431

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/25 08:13	07/18/25 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/25 08:13	07/18/25 11:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/25 08:13	07/18/25 11:17	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/18/25 08:13	07/18/25 11:17	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114431

Spike	LCS	LCS				%Rec
Added	Result	Qualifier	Unit	D	%Rec	Limits
0.100	0.09026	-	mg/Kg		90	70 - 130
0.100	0.08400		mg/Kg		84	70 - 130
0.100	0.09493		mg/Kg		95	70 - 130
0.200	0.1883		mg/Kg		94	70 - 130
0.100	0.09396		mg/Kg		94	70 - 130
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.09026 0.100 0.08400 0.100 0.09493 0.200 0.1883	Added Result Qualifier 0.100 0.09026 0.100 0.08400 0.100 0.09493 0.200 0.1883	Added Result Qualifier Unit 0.100 0.09026 mg/Kg 0.100 0.08400 mg/Kg 0.100 0.09493 mg/Kg 0.200 0.1883 mg/Kg	Added Result Qualifier Unit D 0.100 0.09026 mg/Kg 0.100 0.08400 mg/Kg 0.100 0.09493 mg/Kg 0.200 0.1883 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09026 mg/Kg 90 0.100 0.08400 mg/Kg 84 0.100 0.09493 mg/Kg 95 0.200 0.1883 mg/Kg 94

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114431

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09697		mg/Kg		97	70 - 130	7	35
Toluene	0.100	0.09229		mg/Kg		92	70 - 130	9	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2081		mg/Kg		104	70 - 130	10	35
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

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

Lab Sample ID: MB 880-114333/1-A

Lab Sample ID: LCS 880-114333/2-A

Lab Sample ID: LCSD 880-114333/3-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 114421

Analysis Batch: 114421

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114333

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/17/25 10:49	07/18/25 01:33	1
	MB	MB							

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	07/17/25 10:49	07/18/25 01:33	1
o-Terphenyl	122		70 - 130	07/17/25 10:49	07/18/25 01:33	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114333

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1090 109 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1006 mg/Kg 101 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	128	70 - 130
o-Terphenyl	109	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 114421 **Prep Batch: 114333**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		104	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130	6	20

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	104	70 - 130
o-Terphenyl	109	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114427/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 114439 мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 07/18/25 08:43 mg/Kg

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114427/2-A

Lab Sample ID: LCSD 880-114427/3-A

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

Matrix: Solid

Matrix: Solid

Analysis Batch: 114439

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.1		mg/Kg	_	100	90 - 110	

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 114439

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	253.0	-	mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

GC VOA

Prep Batch: 114431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8468-1	CS - 4	Total/NA	Solid	5035	
MB 880-114431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8468-1	CS - 4	Total/NA	Solid	8021B	114431
MB 880-114431/5-A	Method Blank	Total/NA	Solid	8021B	114431
LCS 880-114431/1-A	Lab Control Sample	Total/NA	Solid	8021B	114431
LCSD 880-114431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114431

Analysis Batch: 114512

Lab Sample ID Client Sample ID		Prep Type	Matrix	Method	Prep Batch
890-8468-1	CS - 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114333

Lab Sample ID 890-8468-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-114333/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114333/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114421

Lab Sample ID 890-8468-1	Client Sample ID CS - 4	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 114333
MB 880-114333/1-A	Method Blank	Total/NA	Solid	8015B NM	114333
LCS 880-114333/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114333
LCSD 880-114333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114333

Analysis Batch: 114485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8468-1	CS - 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-8468-1	CS - 4	Soluble	Solid	DI Leach
MB 880-114427/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-114427/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-114427/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

Analysis Batch: 114439

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8468-1	CS - 4	Soluble	Solid	300.0	114427
MB 880-114427/1-A	Method Blank	Soluble	Solid	300.0	114427
LCS 880-114427/2-A	Lab Control Sample	Soluble	Solid	300.0	114427
LCSD 880-114427/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114427

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: MULVA

Job ID: 890-8468-1

SDG: 210

Client Sample ID: CS - 4

Date Collected: 07/17/25 09:40 Date Received: 07/17/25 16:18 Lab Sample ID: 890-8468-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	114431	07/18/25 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114434	07/18/25 12:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114512	07/18/25 12:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			114485	07/18/25 10:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114333	07/18/25 08:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114421	07/18/25 10:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	114427	07/18/25 08:04	SA	EET MID
Soluble	Analysis	300.0		1			114439	07/18/25 10:36	CS	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: MULVA

Job ID: 890-8468-1

SDG: 210

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELAI)	T104704400	06-30-26	
,	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
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: MULVA

Job ID: 890-8468-1

SDG: 210

3DG. 210	
Laboratory	
EET MID	

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: MULVA

Job ID: 890-8468-1

SDG: 210

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8468-1	CS - 4	Solid	07/17/25 09:40	07/17/25 16:18	4

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

Relinquished by: (Signature)

received by: (Signature) くている

Date/Time /S

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Total

200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 /

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Votice: 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

eurofins

Xenco

Environment Testing

Project Manager:

Gilbert Moreno

Bill to: (if different) Company Name: Address:

Earth Systems R&R

Chain of Custody

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

Work (www.xenco.com	Work Order No:
Work Order Comments	<u>o.com</u> Page_	er No:
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					×	TPH -NM													Earth
					×	Chloride-	NM												Earth Systems
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	25 3:		25 3:34:09 PM		160854	X X X Incident Number nAPP2509160854	# of Cont X TPH -NM X Chloride X BTEX-NN Hold X 24 Hr Rus nAPP2509160854	# of Cont X TPH -NM X Chloride-NM X BTEX-NM Hold X 24 Hr Rush Incident Number nAPP2509160854	# of Cont X TPH -NM X Chloride-NM X BTEX-NM Hold X 24 Hr Rush Sample Comments Incident Number nAPP2509160854	Somp # of Cont Par Na ₂ S ₂ O ₃ : Na ₂ O ₃ Na ₂ S ₂ O ₃ : Na ₂ O ₃ N	# of Cont Parame	Sample Comments Description D	Sort Parameters TPH -NM X X BTEX-NM Hold X 24 Hr Rush Sample Comments Incident Number nAPP2509160854	SO HAND SO HAND SO HAND SO HAND HAND HAND HAND HAND HAND HAND HAND	Somp Fort Parameters One: NO Di Water: H ₂ O One: NO One: NO	ANALYSIS REQUEST Press. Press. Press. ANALYSIS REQUEST Press. Press. ANALYSIS REQUEST Press. One: No DI Waler: H ₂ O Oo: Cool MeOH: Me CL: HC HNO ₃ : HN SO ₄ : H ₂ NaOH: Na BSO ₂ 8468 Chain of Custody ApC ₄ : H ₂ NaOH: Na BTEXNABIS Na ₃ S ₂ O ₃ : NaSO ₃ Zn Acetate-NaOH: Zn NaOH: Ascorbic Acid: SAPC Sample Comments Incident Number nAPP2509160854	Deliverables: EDD ☐ ADAPT ☐ Other: ANALYSIS RECULFST Preservative Codes one: No DI Water: H ₂ O oot: Cool MeOH: Me Oot: H Oot: HC NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acceler-NaOH: Zn NaOH+Ascerbic Acid: SAPC Sample Comments Sample Comments Preservative Codes Oot: Cool MeOH: Me Oot: HC NaOH: Na APOZ: H ₂ NaOH-Ascerbic Acid: SAPC Sample Comments Preservative Codes Oot: Cool MeOH: Me NaHSO ₂ : NASIS Na ₂ S ₂ O ₃ : NASIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acceler-NaOH: Zn NaOH+Ascerbic Acid: SAPC Incident Number NAPP2509160854	Reporting: Level PST/UST TRRP Level \ldots Deliverables: EDD ADaPT Other: Deliverables: EDD ADaPT Other:	State of Project: Reporting Level II

Cooler Custody Seals: Samples Received Intact: SAMPLE RECEIPT

Yes

No

Thermometer ID:

(JODAI)

9

Correction Factor:

Cemp Blank:

Yes No

Wet Ice:

Yes No

Yes No

Corrected Temperature:

G

Temperature Reading:

Sample Custody Seals:

otal Containers:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth (feet)

CS-4

S

7.17.25

9:40

Sampler's Name: -

Project Location: Project Number: Project Name:

Lea County, NM

Due Date: ☐ Routine

Rush TAT

Santiago Giron

TAT starts the day received by the lab,

received by 4:30pm

Phone:

832-541-7719

Email: gmoreno@earthsys

City, State ZIP:

Turn Around

✓ Rush

Mulva 210

Carlsbad, NM, 88220 1910 Resource Ct.

City, State ZIP: ddress: Company Name:

CC/WO#

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8468-1

SDG Number: 210

Login Number: 8468 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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	

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8468-1

SDG Number: 210

Login Number: 8468
List Source: Eurofins Midland
List Number: 2
List Creation: 07/18/25 08:05 AM

Creator: Laing, Edmundo

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	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/23/2025 3:38:52 PM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8495-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 7/23/2025 3:38:52 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8495-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Mulva

Job ID: 890-8495-1 SDG: Lea County, NM

nty, NM

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

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Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8495-1

Project: Mulva

Job ID: 890-8495-1 Eurofins Carlsbad

Job Narrative 890-8495-1

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 7/22/2025 2:05 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 2.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-8 (890-8495-2). 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 surrogate recovery for the blank associated with preparation batch 880-114776 and analytical batch 880-114802 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.

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: Mulva

Lab Sample ID: 890-8495-1

Matrix: Solid

Job ID: 890-8495-1

SDG: Lea County, NM

Date Received: 07/22/25 14:05 Sample Depth: 4

Client Sample ID: CS-7

Date Collected: 07/22/25 11:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/23/25 08:41	07/23/25 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/23/25 08:41	07/23/25 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				07/23/25 08:41	07/23/25 11:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/23/25 08:41	07/23/25 11:53	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/23/25 11:24	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(00)						
		ilics (Dito)	(GC)						
Analyte	• •	Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result	Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 07/23/25 07:47	Analyzed 07/23/25 11:24	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	MDL		<u>D</u>	<u>·</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u> </u>	07/23/25 07:47	07/23/25 11:24	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U U U	FL 50.0	MDL	mg/Kg	<u>D</u>	07/23/25 07:47 07/23/25 07:47	07/23/25 11:24 07/23/25 11:24	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	FL 50.0 50.0 50.0	MDL	mg/Kg	<u> </u>	07/23/25 07:47 07/23/25 07:47 07/23/25 07:47	07/23/25 11:24 07/23/25 11:24 07/23/25 11:24	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	07/23/25 07:47 07/23/25 07:47 07/23/25 07:47 Prepared	07/23/25 11:24 07/23/25 11:24 07/23/25 11:24 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg	<u> </u>	07/23/25 07:47 07/23/25 07:47 07/23/25 07:47 Prepared 07/23/25 07:47	07/23/25 11:24 07/23/25 11:24 07/23/25 11:24 Analyzed 07/23/25 11:24	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg	D	07/23/25 07:47 07/23/25 07:47 07/23/25 07:47 Prepared 07/23/25 07:47	07/23/25 11:24 07/23/25 11:24 07/23/25 11:24 Analyzed 07/23/25 11:24	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: CS-8 Lab Sample ID: 890-8495-2 Matrix: Solid

Date Collected: 07/22/25 11:30 Date Received: 07/22/25 14:05

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00286		0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/23/25 08:41	07/23/25 12:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/23/25 08:41	07/23/25 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1-	70 - 130				07/23/25 08:41	07/23/25 12:13	

Client Sample ID: CS-8

Sample Depth: 4

Date Collected: 07/22/25 11:30

Date Received: 07/22/25 14:05

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

SDG: Lea County, NM

Lab Sample ID: 890-8495-2

Matrix: Solid

Job ID: 890-8495-1

1.4-Diffuorobenzene (Surr) 115 70 - 130 07/23/25 08:41 07/23/25 12:13	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed		115		70 - 130				07/23/25 08:41	07/23/25 12:13	
Total BTEX	Method: TAL SOP Total BTEX - Tot	tal BTEX Cald	culation							
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Total TPH <50.0	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed	Total BTEX	<0.00402	U	0.00402		mg/Kg			07/23/25 12:13	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Analyzed Gasoline Range Organics (Over C28-C36) C50.0 U S0.0 mg/Kg O7/23/25 07:47 O7/23/25 12:14 O7/23/25 07:47 O7/23/25 07:47 O7/23/25 12:14 O7/23/25 07:47 O7/23/25 07	Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GC)						
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics < 50.0	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0	Total TPH	<50.0	U	50.0		mg/Kg			07/23/25 12:14	
C10-C28) Oil Range Organics (Over C28-C36) Surrogate %Recovery 1-Chlorooctane 0-Terphenyl Prepared 0-Terphenyl Method: EPA 300.0 - Anions, Ion Chromatography - Soluble	Gasoline Range Organics				MDL		D			Dil Fa
C10-C28) Oil Range Organics (Over C28-C36) Surrogate **Recovery** Qualifier** Limits* 1-Chlorooctane **O-130 **O-130 **O-130 **O-123/25 07:47 **O7/23/25 07:47 **O7/23/25 07:47 **O7/23/25 07:47 **O7/23/25 07:47 **O7/23/25 07:47 **O7/23/25 12:14 **Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**	5 5	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 12:14	
Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 82 70 - 130 07/23/25 07:47 07/23/25 12:14 o-Terphenyl 79 70 - 130 07/23/25 07:47 07/23/25 12:14 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 12:14	
1-Chlorooctane 82 70 - 130 07/23/25 07:47 07/23/25 12:14 o-Terphenyl 79 70 - 130 07/23/25 07:47 07/23/25 12:14 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble	5 5 .									
o-Terphenyl 79 70 - 130 07/23/25 07:47 07/23/25 12:14 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble	C10-C28)	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 12:14	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble	C10-C28) Oil Range Organics (Over C28-C36)					mg/Kg				Dil Fa
	C10-C28) Dil Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fa
Analyte Result Qualifier RL MDL Unit D Prenared Analyzed	C10-C28) Dil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 82		Limits 70 - 130		mg/Kg		Prepared 07/23/25 07:47	Analyzed 07/23/25 12:14	Dil Fa
The same of the sa	C10-C28) Dil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane D-Terphenyl	%Recovery 82 79	Qualifier	Limits 70 - 130 70 - 130		mg/Kg		Prepared 07/23/25 07:47	Analyzed 07/23/25 12:14	Dil Fa

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8495-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8495-1	CS-7	113	88	
890-8495-1 MS	CS-7	105	100	
890-8495-1 MSD	CS-7	97	98	
890-8495-2	CS-8	55 S1-	115	
LCS 880-114786/1-A	Lab Control Sample	105	100	
LCSD 880-114786/2-A	Lab Control Sample Dup	105	104	
MB 880-114786/5-A	Method Blank	108	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8495-1	CS-7	77	76
890-8495-1 MS	CS-7	90	78
890-8495-1 MSD	CS-7	91	78
890-8495-2	CS-8	82	79
LCS 880-114776/2-A	Lab Control Sample	92	100
LCSD 880-114776/3-A	Lab Control Sample Dup	108	97
MB 880-114776/1-A	Method Blank	137 S1+	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8495-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114786/5-A

Lab Sample ID: LCS 880-114786/1-A

Matrix: Solid

Analysis Batch: 114784

Client Sample ID: Method Blank

Prep Batch: 114786

Prep Type: Total/NA

Dil Fac Analyte Result Qualifier RL MDL Unit Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 07/23/25 08:41 07/23/25 11:31 Toluene <0.00200 U 0.00200 mg/Kg 07/23/25 08:41 07/23/25 11:31 Ethylbenzene <0.00200 U 0.00200 07/23/25 11:31 mg/Kg 07/23/25 08:41 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 07/23/25 08:41 07/23/25 11:31 o-Xylene <0.00200 U 0.00200 07/23/25 08:41 07/23/25 11:31 mg/Kg Xylenes, Total <0.00400 U 0.00400 07/23/25 08:41 07/23/25 11:31 mg/Kg

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	 07/23/25 08:41	07/23/25 11:31	1
1.4-Difluorobenzene (Surr)	89		70 - 130	07/23/25 08:41	07/23/25 11:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114786

Prep Type: Total/NA

Prep Batch: 114786

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08684 mg/Kg 87 70 - 130 Toluene 0.100 0.08407 mg/Kg 84 70 - 130 Ethylbenzene 0.100 0.09456 mg/Kg 95 70 - 130 70 - 130 94 m-Xylene & p-Xylene 0.200 0.1879 mg/Kg 0.100 o-Xylene 0.09317 mg/Kg 93 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-114786/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 114784

Analysis Batch: 114784

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09520		mg/Kg		95	70 - 130	9	35	
Toluene	0.100	0.08802		mg/Kg		88	70 - 130	5	35	
Ethylbenzene	0.100	0.09836		mg/Kg		98	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	3	35	
o-Xylene	0.100	0.09686		mg/Kg		97	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-8495-1 MS

Matrix: Solid

Analysis Batch: 114784

Client Sample ID: CS-7 Prep Type: Total/NA

Prep Batch: 114786

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09440		mg/Kg		94	70 - 130	
Toluene	<0.00200	U	0.100	0.08619		mg/Kg		86	70 - 130	

QC Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8495-1 Project/Site: Mulva SDG: Lea County, NM

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

Lab Sample ID: 890-8495-1 MS **Matrix: Solid**

Analysis Batch: 114784

Client Sample ID: CS-7 Prep Type: Total/NA

Prep Batch: 114786

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.100 0.09594 96 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00399 0.200 0.1892 mg/Kg 95 70 - 130 o-Xylene <0.00200 U 0.100 0.09296 93 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-8495-1 MSD

Matrix: Solid

Analysis Batch: 114784

Client Sample ID: CS-7 Prep Type: Total/NA

Prep Batch: 114786

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00200 U 0.100 0.09198 mg/Kg 92 70 - 130 3 35 Toluene <0.00200 0.100 0.08252 mg/Kg 83 70 - 130 4 35 Ethylbenzene <0.00200 U 0.100 0.08901 89 70 - 130 35 mg/Kg 0.200 m-Xylene & p-Xylene <0.00399 U 0.1716 mg/Kg 86 70 - 130 10 35 <0.00200 U 0.100 0.08436 84 70 - 130 o-Xylene mg/Kg 10

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-114776/1-A

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114776

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 07/23/25 07:47 <50.0 U 07/23/25 08:29 Gasoline Range Organics mg/Kg (GRO)-C6-C10 07/23/25 08:29 Diesel Range Organics (Over <50.0 U 50.0 07/23/25 07:47 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 07/23/25 07:47 07/23/25 08:29 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	07/23/25 07:47	07/23/25 08:29	1
o-Terphenyl	136	S1+	70 - 130	07/23/25 07:47	07/23/25 08:29	1

Lab Sample ID: LCS 880-114776/2-A

Matrix: Solid

Analysis Batch: 114802

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

Prep Batch: 114776

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1059		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1068		mg/Kg		107	70 - 130	
C10-C28)								

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8495-1

SDG: Lea County, NM

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

LCS LCS

Lab Sample ID: LCS 880-114776/2-A

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114776

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130 o-Terphenyl 100 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114776

Lab Sample ID: LCSD 880-114776/3-A **Matrix: Solid**

Analysis Batch: 114802

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	991.2		mg/Kg		99	70 - 130	7	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	936.6		mg/Kg		94	70 - 130	13	20	
040,000)										

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 108 70 - 130 1-Chlorooctane o-Terphenyl 97 70 - 130

Lab Sample ID: 890-8495-1 MS

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: CS-7 Prep Type: Total/NA

Prep Batch: 114776

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	879.3		mg/Kg		88	70 - 130	
Diesel Range Organics (Over	<50.0	U	997	835.9		mg/Kg		84	70 - 130	
C10-C28)										

	MS		
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-8495-1 MSD Client Sample ID: CS-7

Matrix: Solid

Analysis Batch: 114802

Prep Type: Total/NA

Prep Batch: 114776

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	997	915.3		mg/Kg		92	70 - 130	4	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	997	868.5		mg/Kg		87	70 - 130	4	20	
C10-C28)												

C10-C28)

	INISD	IVISD			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	91		70 - 130		
o-Terphenyl	78		70 - 130		

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8495-1

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114762/1-A

Lab Sample ID: LCS 880-114762/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 114796

Matrix: Solid

Matrix: Solid

Analyte

Chloride

MB MB

Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed <10.0 U 10.0 mg/Kg 07/23/25 10:13

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analysis Batch: 114796

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 225.8 mg/Kg 90 90 - 110

Lab Sample ID: LCSD 880-114762/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 114796

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 229.4 90 - 110 20 mg/Kg

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8495-1 Project/Site: Mulva SDG: Lea County, NM

GC VOA

Analysis Batch: 114784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Total/NA	Solid	8021B	114786
890-8495-2	CS-8	Total/NA	Solid	8021B	114786
MB 880-114786/5-A	Method Blank	Total/NA	Solid	8021B	114786
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	8021B	114786
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114786
890-8495-1 MS	CS-7	Total/NA	Solid	8021B	114786
890-8495-1 MSD	CS-7	Total/NA	Solid	8021B	114786

Prep Batch: 114786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Total/NA	Solid	5035	
890-8495-2	CS-8	Total/NA	Solid	5035	
MB 880-114786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8495-1 MS	CS-7	Total/NA	Solid	5035	
890-8495-1 MSD	CS-7	Total/NA	Solid	5035	

Analysis Batch: 114830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Total/NA	Solid	Total BTEX	
890-8495-2	CS-8	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Total/NA	Solid	8015NM Prep	
890-8495-2	CS-8	Total/NA	Solid	8015NM Prep	
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8495-1 MS	CS-7	Total/NA	Solid	8015NM Prep	
890-8495-1 MSD	CS-7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Total/NA	Solid	8015B NM	114776
890-8495-2	CS-8	Total/NA	Solid	8015B NM	114776
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015B NM	114776
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114776
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114776
890-8495-1 MS	CS-7	Total/NA	Solid	8015B NM	114776
890-8495-1 MSD	CS-7	Total/NA	Solid	8015B NM	114776

Analysis Batch: 114853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Total/NA	Solid	8015 NM	
890-8495-2	CS-8	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8495-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC

Leach Batch: 114762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Soluble	Solid	DI Leach	
890-8495-2	CS-8	Soluble	Solid	DI Leach	
MB 880-114762/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 114796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8495-1	CS-7	Soluble	Solid	300.0	114762
890-8495-2	CS-8	Soluble	Solid	300.0	114762
MB 880-114762/1-A	Method Blank	Soluble	Solid	300.0	114762
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	300.0	114762
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114762

Released to Imaging: 9/30/2025 3:34:09 PM

Client Sample ID: CS-7

Date Collected: 07/22/25 11:25

Date Received: 07/22/25 14:05

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-8495-1

Matrix: Solid

Job ID: 890-8495-1

SDG: Lea County, NM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114830	07/23/25 11:53	SA	EET MID
Total/NA	Analysis	8015 NM		1			114853	07/23/25 11:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 11:24	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 12:08	CS	EET MID

Client Sample ID: CS-8 Lab Sample ID: 890-8495-2

Date Collected: 07/22/25 11:30 Date Received: 07/22/25 14:05

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 12:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114830	07/23/25 12:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			114853	07/23/25 12:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 12:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 12:15	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8495-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Mulva

Job ID: 890-8495-1

SDG: Lea 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
OI 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: Mulva

Job ID: 890-8495-1

SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depti
890-8495-1	CS-7	Solid	07/22/25 11:25	07/22/25 14:05	4
890-8495-2	CS-8	Solid	07/22/25 11:30	07/22/25 14:05	4

Relinquished by: (Signature)

allo

40.7

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

	1	ဂ	Chain of Custody	
eurofins	Environment Testing	Houston, T) Midland, TX (4	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	
	Xenco	EL Paso, TX	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	890-8495 Chain of Custody
		Hobbs, NM (Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Usago
ct Manager:	Gilbert Moreno	Bill to: (if different)		Work Order Comments
pany Name:	Earth Systems R&R	Company Name:	Earth Systems	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfun
ess:	1910 Resource Ct.	Address:		State of Project:
State ZIP:	Carlsbad, NM, 88220	City, State ZIP:		Reporting: Level II
e:	832-541-7719 En	Email: gmoreno@earthsys.net		Deliverables: EDD ☐ ADaPT ☐ Other:

	beliverables: EDD ADaPT Other:
	Reporting: Level III ☐ PST/UST ☐ TRRP ☐ Level IV☐
	tate of Project:
	rogram: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
	Work Order Comments
	www.xenco.com Page (vi
	රවිට-84විර Chain of Custody
7/2	
2/	

Project Name:	Mulva			Turn Around							ANAL	TOIO	LIGIO ARCOROL	U						710	SCI AM	Ligaciacina conca
Project Number:	210		Routine	✓ Rush	Pres. Code	e s													7	None: NO	,	DI Water: H ₂ O
Project Location:	Lea County, NM	M	Due Date:	24 Rush TAT															C	Cool: Cool	5	MeOH: Me
Sampler's Name:	Santiago Giron	ron	TAT starts the	TAT starts the day received by the lab, if	Ď, if			T						4	_	_	-	_	т	HCL: HC		HNO ₃ : HN
CC/WO#:			гесе	received by 4:30pm										_	_				Ŧ	H ₂ SO ₄ : H ₂	.~	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet ice:	(Yes) No	nete		-							+	_	1	+	1	+	H3PO4: HP	D	
Samples Received Intact:	Ges No	Thermometer ID:	er ID:	Maron	ran		Ť		Ť				Ц						7	NaHSO ₄ : NABIS	NABIS	0,
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	Factor:	2.0-	Pa														_	Na ₂ S ₂ O ₃ : NaSO ₃	NaSO	ພ
Sample Custody Seals:	Yes No N/A	Temperature Reading:	e Reading:	3.0										-			-		2	Zn Acetate+NaOH: Zn	e+Na()H: Zn
Total Containers:		Corrected T	Corrected Temperature:	7.8			NM			h									7	laOH+A	scorbic	NaOH+Ascorbic Acid: SAPC
Sample Identification	tion	Date Sampled	Time Sampled	Depth (feet) Cc	Grab/ to Comp # 0	Cont TPH -NM	Chloride-	BTEX-NM	Hold	24 Hr Rus										Sar	nple C	Sample Comments
CS-7	S	7.22.25	11:25	4 Cc	Comp 1	×	×	×		×										2	cident	Incident Number
CS-8	S	7.22.25	11:30	4 00	Comp 1	×	×	×		×										ηA	PP25	nAPP2509160854
					+	-													_			
													_				_		_			
Total 200.7 / 6010	200.8 / 6020:		8RCRA	13PPM Texas 11	I Al Sb As		Ва Ве	ВСС	d Ca Cr	Cr Cr	Co Cu F	Fe Pb	Pb Mg N	Λn M	Z.	Mn Mo Ni K Se Ag		iO ₂ Z	la Sr	SiO2 Na Sr Ti Sn U V Zn	∪ ∨	Zn
Circle Method(s) and Metal(s) to be analyzed	etal(s) to be anal	yzed															_	નું: 1૯	31/2	Hg: 1631 / 245.1 / 7470 / 7471	470 /	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. Funding 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	ent and relinquishmer	nt of samples con	nstitutes a valid p	urchase order from clic	nt compa	ny to Eu	rofins X	nco, its	afflliate	and sut	contract	ors It a	ecions s	Mehrer	terms	and cor	ditions					

Proje Com Addr City,

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8495-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8495 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
camples are received within Holding Time (excluding tests with immediate ITs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
ppropriate 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	

Released to Imaging: 9/30/2025 3:34:09 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8495-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 07/23/25 08:23 AM

Login Number: 8495 List Number: 2

Creator: Laing, Edmundo

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

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	

N/A

True

N/A

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/23/2025 3:39:27 PM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8497-1

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

Brisma Tel

Generated 7/23/2025 3:39:27 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8497-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

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12

14

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-8497-1 Project/Site: Mulva SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. 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 Job ID: 890-8497-1

Project: Mulva

Job ID: 890-8497-1 Eurofins Carlsbad

Job Narrative 890-8497-1

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 7/22/2025 2:05 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 2.8°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: The surrogate recovery for the blank associated with preparation batch 880-114776 and analytical batch 880-114802 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.

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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Matrix: Solid

Lab Sample ID: 890-8497-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8497-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: CS-5

Date Collected: 07/22/25 11:15 Date Received: 07/22/25 14:05

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/23/25 08:41	07/23/25 12:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/23/25 08:41	07/23/25 12:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/23/25 08:41	07/23/25 12:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				07/23/25 08:41	07/23/25 12:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/23/25 08:41	07/23/25 12:34	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/23/25 12:34	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
	•	, , ,	•	MDI	Unit	n	Propared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/23/25 12:31	Dil Fac
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH . Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0		mg/Kg			07/23/25 12:31	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg	<u>D</u>	Prepared	07/23/25 12:31 Analyzed	Dil Fac
Analyte Total TPH . Method: SW846 8015B NM - Dies	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg			07/23/25 12:31	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg		Prepared	07/23/25 12:31 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47	07/23/25 12:31 Analyzed 07/23/25 12:31 07/23/25 12:31	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg		Prepared 07/23/25 07:47	07/23/25 12:31 Analyzed 07/23/25 12:31	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47	07/23/25 12:31 Analyzed 07/23/25 12:31 07/23/25 12:31	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47 07/23/25 07:47	07/23/25 12:31 Analyzed 07/23/25 12:31 07/23/25 12:31 07/23/25 12:31	1 Dil Fac

Client Sample ID: CS-6

Date Collected: 07/22/25 11:20 Date Received: 07/22/25 14:05

Sample Depth: 4

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/23/25 08:41	07/23/25 12:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/23/25 08:41	07/23/25 12:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/23/25 08:41	07/23/25 12:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/23/25 08:41	07/23/25 12:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/23/25 08:41	07/23/25 12:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/23/25 08:41	07/23/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				07/23/25 08:41	07/23/25 12:54	1

RL

10.0

Result Qualifier

<10.0 U

MDL Unit

mg/Kg

D

Prepared

Analyzed

07/23/25 12:54

Lab Sample ID: 890-8497-2

Dil Fac

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-8497-2

Client Sample ID: CS-6 Date Collected: 07/22/25 11:20

Matrix: Solid

Job ID: 890-8497-1

SDG: Lea County, NM

Sample Depth: 4

Date Received: 07/22/25 14:05

Method: SW846 8021B - Vol	atile Organic Compounds (GC)	(Continued)	
Surrogate	%Recovery Qualifier	Limits	Prepared

Analyzed Dil Fac 70 - 130 07/23/25 12:54 1,4-Difluorobenzene (Surr) 07/23/25 08:41

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 07/23/25 12:54 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.8 U 49.8 mg/Kg 07/23/25 12:48

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

Result Qualifier MDL Unit D Analyte RL Prepared Analyzed Dil Fac <49.8 U 49.8 07/23/25 07:47 07/23/25 12:48 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 07/23/25 07:47 07/23/25 12:48 C10-C28) Oil Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 07/23/25 07:47 07/23/25 12:48

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 120 70 - 130 07/23/25 07:47 07/23/25 12:48 o-Terphenyl 115 70 - 130 07/23/25 07:47 07/23/25 12:48

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride <10.1 U 10.1 07/23/25 13:17 mg/Kg

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8497-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco	overy (Acceptan
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-8497-1	CS-5	95	97		
890-8497-2	CS-6	81	104		
LCS 880-114786/1-A	ab Control Sample	105	100		
LCSD 880-114786/2-A	ab Control Sample Dup	105	104		
MB 880-114786/5-A	Method Blank	108	89		
Surrogate Legend					
		108	89		

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8497-1	CS-5	79	75	
890-8497-2	CS-6	120	115	
LCS 880-114776/2-A	Lab Control Sample	92	100	
LCSD 880-114776/3-A	Lab Control Sample Dup	108	97	
MB 880-114776/1-A	Method Blank	137 S1+	136 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8497-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114786/5-A

Lab Sample ID: LCS 880-114786/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 114784

Analysis Batch: 114784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114786

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/23/25 08:41	07/23/25 11:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pr	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/23	3/25 08:41	07/23/25 11:31	1
1.4-Difluorobenzene (Surr)	89		70 - 130	07/23	3/25 08:41	07/23/25 11:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114786

Prep Type: Total/NA

Prep Batch: 114786

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08684 mg/Kg 87 70 - 130 Toluene 0.100 0.08407 mg/Kg 84 70 - 130 0.100 0.09456 95 Ethylbenzene mg/Kg 70 - 130 0.200 94 70 - 130 m-Xylene & p-Xylene 0.1879 mg/Kg 0.100 0.09317 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery Qua	alifier Limits	;
4-Bromofluorobenzene (Surr)	105	70 - 13	30
1,4-Difluorobenzene (Surr)	100	70 - 13	30

Lab Sample ID: LCSD 880-114786/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 114784

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09520		mg/Kg		95	70 - 130	9	35	
Toluene	0.100	0.08802		mg/Kg		88	70 - 130	5	35	
Ethylbenzene	0.100	0.09836		mg/Kg		98	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	3	35	
o-Xylene	0.100	0.09686		mg/Kg		97	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8497-1

SDG: Lea County, NM

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

Lab Sample ID: MB 880-114776/1-A

Analysis Batch: 114802

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114776

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				07/23/25 07:47	07/23/25 08:29	1
o-Terphenyl	136	S1+	70 - 130				07/23/25 07:47	07/23/25 08:29	1

Lab Sample ID: LCS 880-114776/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Analysis Batch: 114802

Prep Type: Total/NA

Prep Batch: 114776

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1068		mg/Kg		107	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 92 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: LCSD 880-114776/3-A

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114776

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	991.2		mg/Kg		99	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	936.6		mg/Kg		94	70 - 130	13	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 108 97 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114762/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 114796

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/23/25 10:13	1

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Method: 300.0 - Anions, Ion Chromatography (Continued)

Job ID: 890-8497-1

SDG: Lea County, NM

Lab Sample ID: LCS 880-114762/2-A

Analysis Batch: 114796

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 225.8 mg/Kg 90 90 - 110

Lab Sample ID: LCSD 880-114762/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 114796

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 229.4 mg/Kg 92 90 - 110 2 20

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Released to Imaging: 9/30/2025 3:34:09 PM

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8497-1 Project/Site: Mulva SDG: Lea County, NM

GC VOA

Analysis Batch: 114784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Total/NA	Solid	8021B	114786
890-8497-2	CS-6	Total/NA	Solid	8021B	114786
MB 880-114786/5-A	Method Blank	Total/NA	Solid	8021B	114786
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	8021B	114786
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114786

Prep Batch: 114786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Total/NA	Solid	5035	
890-8497-2	CS-6	Total/NA	Solid	5035	
MB 880-114786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Total/NA	Solid	Total BTEX	
890-8497-2	CS-6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Total/NA	Solid	8015NM Prep	
890-8497-2	CS-6	Total/NA	Solid	8015NM Prep	
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Total/NA	Solid	8015B NM	114776
890-8497-2	CS-6	Total/NA	Solid	8015B NM	114776
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015B NM	114776
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114776
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114776

Analysis Batch: 114854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Total/NA	Solid	8015 NM	
890-8497-2	CS-6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114762

Released to Imaging: 9/30/2025 3:34:09 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Soluble	Solid	DI Leach	
890-8497-2	CS-6	Soluble	Solid	DI Leach	
MB 880-114762/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8497-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC

Analysis Batch: 114796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8497-1	CS-5	Soluble	Solid	300.0	114762
890-8497-2	CS-6	Soluble	Solid	300.0	114762
MB 880-114762/1-A	Method Blank	Soluble	Solid	300.0	114762
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	300.0	114762
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114762

Client: Earth Systems Response and Restoration

Job ID: 890-8497-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: CS-5

Date Collected: 07/22/25 11:15 Date Received: 07/22/25 14:05 Lab Sample ID: 890-8497-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114831	07/23/25 12:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			114854	07/23/25 12:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 12:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 12:54	CS	EET MID

Client Sample ID: CS-6 Lab Sample ID: 890-8497-2 Matrix: Solid

Date Collected: 07/22/25 11:20 Date Received: 07/22/25 14:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114831	07/23/25 12:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			114854	07/23/25 12:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 12:48	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 13:17	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8497-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Mulva

Job ID: 890-8497-1

SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
3021B	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
3015B 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
Ol 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: Mulva

Job ID: 890-8497-1 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8497-1	CS-5	Solid	07/22/25 11:15	07/22/25 14:05	4
890-8497-2	CS-6	Solid	07/22/25 11:20	07/22/25 14:05	4

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121314

eurofins Environment Testing
Xenco

Project Manager:

Gilbert Moreno Earth Systems R&R 1910 Resource Ct.

Address: Company Name:

Address: Company Name: Bill to: (if different)

Earth Systems

State of Project:

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

		4								
		2	7/22	4.02	· 4			alulu	0	2
gnature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ne	Date/Time		e)	Received by: (Signature)	Rece	ature)	Relinquished by: (Signature)
	rd terms and conditions tances beyond the control unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shalf 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.	Xenco, its at as incurred k	o Eurofins or expense d to Eurofit	ny losses submitte	order from client or responsibility for a \$5 for each sample	itutes a valid purchase shall not assume any project and a charge of	f samples cons of samples an pplied to each	nt and relinquishment on liable only for the cost arge of \$85.00 will be	Signature of this documence. Eurofins Xenco will be offins Xenco. A minimum ct
Hg: 1631 / 245.1 / 7470 / 7471	Hg: 1							ed	al(s) to be analyz	Circle Method(s) and Metal(s) to be analyzed
Na Sr Ti Sn U V Zn	Pb Mg Mn Mo Ni K Se Ag SiO ₂	Ca Cr Co Cu Fe	3e B Cd	\s Ba E	Al Sb /	Texas 11	8RCRA 13PPM Texas 11 Al Sb As Ba Be		200.8 / 6020:	Total 200.7 / 6010
				-						
				+						
				-		-				
nAPP2509160854		×	×	×	7	4 Comp	11:20	7.22.25	S	CS-6
Incident Number		×	×	×	<u>-</u>	4 Comp	11:15	7.22.25	S	CS-5
Sample Comments		Hold 24 Hr Ru	BTEX-N	TPH -NM	# of Cont	Depth (feet) Comp	Time Dept	Date Sampled	on Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC		sh		.NM		2.8	nperature:	Corrected Temperature:	(Total Containers:
∠n Acetate+NaOH: ∠n						0.0	Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
Na ₂ S ₂ U ₃ : NaSO ₃					P	0.2	,	Correction Factor:	Yes No N/A	Cooler Custody Seals:
NaHSO ₄ : NABIS					arai	mo07	7	Thermometer ID:	Yes No	Samples Received Intact:
H ₃ PO ₄ : HP					nete	Yes No	Wet ice:	(Yes) No	Temp Blank:	SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na		-			ers	4:30pm	received by 4:30pm			CC/WO #:
					Ì	eived by the lab, i	TAT starts the day received by the lab, if		Santiago Giron	Sampler's Name:
9						24 Rush TAT	Due Date: 2		Lea County, NM	Project Location:
None: NO DI Water: H ₂ O				_	Code	sh	☐ Routine ✓ Rush		210	Project Number:
Preservative Codes		ANALYSIS REQUEST				ound	Turn Around		Mulva	Project Name:
ADaPI L. Other:	Deliverables: EDD P	Delive			net	Email: gmoreno@earthsys.net	Email: gmore		832-541-7719	Phone: 832-5
_	ting: Level II Level III L	Repor				City, State ZIP:	City, S		Carlsbad, NM, 88220	City, State ZIP: Carlst

Program: UST.			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com	890-8497 Chain of Custody
ields 🗌 R	mments	Page_	Custody
RC _		-	
Supe		으 드	
rfund 🗌		-	

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8497-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8497 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
		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	

Released to Imaging: 9/30/2025 3:34:09 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8497-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 07/23/25 08:23 AM

List Number: 2 Creator: Laing, Edmundo

Login Number: 8497

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	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/23/2025 3:40:44 PM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8499-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 7/23/2025 3:40:44 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8499-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

1

2

3

4

6

8

10

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-8499-1 Project/Site: Mulva SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

74 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**

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8499-1

Project: Mulva

Job ID: 890-8499-1 Eurofins Carlsbad

Job Narrative 890-8499-1

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 7/22/2025 2:05 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 2.8°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: The surrogate recovery for the blank associated with preparation batch 880-114776 and analytical batch 880-114802 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.

HPLC/IC

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

Eurofins Carlsbad

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Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-8499-1

Matrix: Solid

Job ID: 890-8499-1

SDG: Lea County, NM

Client Sample ID: SW-7 Date Collected: 07/22/25 11:05 Date Received: 07/22/25 14:05

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/23/25 08:41	07/23/25 13:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/23/25 08:41	07/23/25 13:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/23/25 08:41	07/23/25 13:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/23/25 08:41	07/23/25 13:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/23/25 08:41	07/23/25 13:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/23/25 08:41	07/23/25 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				07/23/25 08:41	07/23/25 13:15	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/23/25 08:41	07/23/25 13:15	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (C Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			RL 49.7	MDL	Unit mg/Kg	D	Prepared	Analyzed 07/23/25 13:04	Dil Fac
-	10.1	· ·	10.7		mg/rtg			01720720 10.01	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/23/25 07:47	07/23/25 13:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/23/25 07:47	07/23/25 13:04	1
C10-C20)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/23/25 07:47	07/23/25 13:04	1
,	<49.7 %Recovery		49.7Limits		mg/Kg		07/23/25 07:47 Prepared	07/23/25 13:04 Analyzed	
Oil Range Organics (Over C28-C36)					mg/Kg				Dil Fac
Oil Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane		Qualifier	Limits 70 - 130 70 - 130		mg/Kg		Prepared 07/23/25 07:47	Analyzed 07/23/25 13:04	1 Dil Fac
Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 90 86 Chromatograp	Qualifier	Limits 70 - 130 70 - 130	MDL		D	Prepared 07/23/25 07:47	Analyzed 07/23/25 13:04	Dil Fac

Client Sample ID: SW-8

Date Collected: 07/22/25 11:10 Date Received: 07/22/25 14:05

Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 07/23/25 08:41 07/23/25 13:35 Toluene <0.00199 U 0.00199 mg/Kg 07/23/25 08:41 07/23/25 13:35 Ethylbenzene <0.00199 U 0.00199 mg/Kg 07/23/25 08:41 07/23/25 13:35 0.00398 07/23/25 13:35 m-Xylene & p-Xylene <0.00398 U mg/Kg 07/23/25 08:41 o-Xylene <0.00199 U 0.00199 07/23/25 08:41 07/23/25 13:35 mg/Kg Xylenes, Total <0.00398 U 0.00398 07/23/25 08:41 07/23/25 13:35 mg/Kg %Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 07/23/25 08:41 07/23/25 13:35 94

Eurofins Carlsbad

Lab Sample ID: 890-8499-2

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva SDG: Lea County, NM Lab Sample ID: 890-8499-2

Client Sample ID: SW-8 Date Collected: 07/22/25 11:10

Result Qualifier

<9.98 U

Matrix: Solid

Job ID: 890-8499-1

Date Received: 07/22/25 14:05 Sample Depth: 0-4

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130				07/23/25 08:41	07/23/25 13:35	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/23/25 13:35	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/23/25 13:21	1
Method: SW846 8015B NM - Die:	sal Ranga Orga	nice (DPO)	(GC)						
Mictiod. Offoro of IOD IVIII - Dic.	•		(30)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics				MDL	Unit mg/Kg	D	Prepared 07/23/25 07:47	Analyzed 07/23/25 13:21	Dil Fac
				MDL		<u>D</u>			Dil Fac
Gasoline Range Organics		U		MDL		<u>D</u>			Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	07/23/25 07:47	07/23/25 13:21	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	07/23/25 07:47	07/23/25 13:21	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U	50.0	MDL	mg/Kg mg/Kg	<u>D</u>	07/23/25 07:47	07/23/25 13:21 07/23/25 13:21	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg	<u>D</u>	07/23/25 07:47 07/23/25 07:47 07/23/25 07:47	07/23/25 13:21 07/23/25 13:21 07/23/25 13:21	1 1

9.98

MDL Unit

mg/Kg

Prepared

Analyzed

07/23/25 13:32

Dil Fac

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8499-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8499-1	SW-7	94	96	
890-8499-2	SW-8	94	95	
LCS 880-114786/1-A	Lab Control Sample	105	100	
LCSD 880-114786/2-A	Lab Control Sample Dup	105	104	
MB 880-114786/5-A	Method Blank	108	89	
Surrogate Legend				
BFB = 4-Bromofluorobenzen	e (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)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8499-1	SW-7	90	86	
890-8499-2	SW-8	88	83	
LCS 880-114776/2-A	Lab Control Sample	92	100	
LCSD 880-114776/3-A	Lab Control Sample Dup	108	97	
MB 880-114776/1-A	Method Blank	137 S1+	136 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Client: Earth Systems Response and Restoration

Job ID: 890-8499-1 Project/Site: Mulva SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114786/5-A

Matrix: Solid

Analysis Batch: 114784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114786

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/23/25 08:41	07/23/25 11:31	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/23/25 08:41	07/23/25 11:31	1
1.4-Difluorobenzene (Surr)	89		70 - 130	07/23/25 08:41	07/23/25 11:31	1

Lab Sample ID: LCS 880-114786/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 114784

						Prep Type: Total/NA
						Prep Batch: 114786
Spike	LCS	LCS				%Rec
Added	Result	Qualifier	Unit	D	%Rec	Limits

	Орікс						/01 1CC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08684		mg/Kg		87	70 - 130	
Toluene	0.100	0.08407		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.09456		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1879		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09317		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-114786/2-A

Matrix: Solid

Analysis Batch: 114784

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

Prep Batch: 114786

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09520		mg/Kg		95	70 - 130	9	35	
Toluene	0.100	0.08802		mg/Kg		88	70 - 130	5	35	
Ethylbenzene	0.100	0.09836		mg/Kg		98	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1946		mg/Kg		97	70 - 130	3	35	
o-Xylene	0.100	0.09686		mg/Kg		97	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8499-1

SDG: Lea County, NM

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

Lab Sample ID: MB 880-114776/1-A

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114776

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 _ 130				07/23/25 07:47	07/23/25 08:29	1
o-Terphenyl	136	S1+	70 - 130				07/23/25 07:47	07/23/25 08:29	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Lab Sample ID: LCS 880-114776/2-A

Analysis Batch: 114802

Prep Type: Total/NA Prep Batch: 114776

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1059 106 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1068 mg/Kg 107 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 92 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: LCSD 880-114776/3-A

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 114776

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier RPD Limit Unit D %Rec Limits Gasoline Range Organics 1000 991.2 mg/Kg 99 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 936.6 mg/Kg 94 70 - 130 13 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qเ	ialifier Limits
1-Chlorooctane	108	70 - 130
o-Terphenyl	97	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114762/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 114796

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/23/25 10:13	1

Eurofins Carlsbad

Prep Type: Soluble

Client: Earth Systems Response and Restoration

Lab Sample ID: LCSD 880-114762/3-A

Job ID: 890-8499-1 Project/Site: Mulva

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114762/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 114796

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 225.8 mg/Kg 90 90 - 110

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid Analysis Batch: 114796

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 229.4 mg/Kg 92 90 - 110 2 20

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8499-1 Project/Site: Mulva SDG: Lea County, NM

GC VOA

Analysis Batch: 114784

Lab Sample ID 890-8499-1	Client Sample ID SW-7	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 114786
890-8499-2	SW-8	Total/NA	Solid	8021B	114786
MB 880-114786/5-A	Method Blank	Total/NA	Solid	8021B	114786
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	8021B	114786
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114786

Prep Batch: 114786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Total/NA	Solid	5035	
890-8499-2	SW-8	Total/NA	Solid	5035	
MB 880-114786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Total/NA	Solid	Total BTEX	
890-8499-2	SW-8	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Total/NA	Solid	8015NM Prep	
890-8499-2	SW-8	Total/NA	Solid	8015NM Prep	
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Total/NA	Solid	8015B NM	114776
890-8499-2	SW-8	Total/NA	Solid	8015B NM	114776
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015B NM	114776
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114776
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114776

Analysis Batch: 114855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Total/NA	Solid	8015 NM	
890-8499-2	SW-8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Soluble	Solid	DI Leach	
890-8499-2	SW-8	Soluble	Solid	DI Leach	
MB 880-114762/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8499-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC

Analysis Batch: 114796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8499-1	SW-7	Soluble	Solid	300.0	114762
890-8499-2	SW-8	Soluble	Solid	300.0	114762
MB 880-114762/1-A	Method Blank	Soluble	Solid	300.0	114762
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	300.0	114762
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114762

Lab Chronicle

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Lab Sample ID: 890-8499-1

Client Sample ID: SW-7 Date Collected: 07/22/25 11:05 Date Received: 07/22/25 14:05

Matrix: Solid

Job ID: 890-8499-1

SDG: Lea County, NM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114840	07/23/25 13:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			114855	07/23/25 13:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 13:04	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 13:24	CS	EET MID

Lab Sample ID: 890-8499-2

Matrix: Solid

Date Collected: 07/22/25 11:10 Date Received: 07/22/25 14:05

Client Sample ID: SW-8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114840	07/23/25 13:35	SA	EET MID
Total/NA	Analysis	8015 NM		1			114855	07/23/25 13:21	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 13:21	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 13:32	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8499-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	Р	T104704400	06-30-26
The following analytes	are included in this report, but	it the laboratory is not certif	ied by the governing authority. This lis	t may include analyte
• •	pes not offer certification.	it the laboratory is not certain	ica by the governing dutionty. This is	t may molade analyte
• •	· · · · · · · · · · · · · · · · · · ·	Matrix	Analyte	t may include analyte
for which the agency do	pes not offer certification.	•	, , ,	t may motide analyte

Method Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8499-1

SDG: Lea County, NM

/lethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	EPA	EET MID
6035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
Ol 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

Eurofins Carlsbad

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Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8499-1

SDG: I	_ea Co	ounty,	NM	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8499-1	SW-7	Solid	07/22/25 11:05	07/22/25 14:05	0-4
890-8499-2	SW-8	Solid	07/22/25 11:10	07/22/25 14:05	0-4

Relinquished by: (Signature)

Received by: (Signature)

14

20

22

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Preservative Codes	QUEST	ANALYSIS REQUEST	Turn Around	Mulva		ect Name:
ADaPT LJ Other:	Deliverables: EDD		Email: gmoreno@earthsys.net		832-541-7719	ne:
yel III	Reporting: Level II Le		City, State ZIP:	Carlsbad, NM, 88220	Carlsbad,	State ZIP:
	State of Project:		Address:	ource Ct.	1910 Resource Ct.	ress:
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Program: UST/PST	Earth Systems	Company Name:	tems R&R	Earth Systems R&R	npany Name:
Work Order Comments	×		Bill to: (if different)	preno	Gilbert Moreno	ect Manager:
890-8499 Chain of Custody www.xenco.com Page / of /	www 8 =====	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	Chi Houston, TX (2 Midland, TX (432) EL Paso, TX (91 Hobbs, NM (578	Environment Testing Xenco	eurofins 🤃	eu 🤃

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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 \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010					SW-8	SW-7	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact	SAMPLE RECEIPT	CC/WO#:	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:
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ourchase order from ame any responsibil harge of \$5 for each		13PPM Texas 11					0-4	0-4	Depth (feet)	2.8	7.0	-02	1 Nrugo	(Yes) No	received by 4:30pm	TAT starts the day received by the lab, if	24 Rush TAT	☑ Rush	Turn Around	Email: gmoreno@earthsys.net	City, State ZIP:	Address:	Company Name	Bill to: (if different)
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	/7470	Sn U V					nAPP:	Incide	Sample	+Ascor	etate+N	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	#	Η ₂	ਨ	Cool	O	resen	Other:	TRR		RR	ents
	Hg: 1631 / 245.1 / 7470 / 7471	V Zn					nAPP2509160854	Incident Number	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	SO ₃	BIS		NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes	er:	RP Level IV		C ☐ Superfund ☐	
ing: 9/.	كا ا						_	1	Pag	je '	18	of	20					ľ	J.,					

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8499-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8499 List Number: 1

Creator: Lopez, Abraham

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

Euronnis Carisbau

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Containers requiring zero headspace have no headspace or bubble is

Job Number: 890-8499-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 07/23/25 08:23 AM

Login Number: 8499 List Number: 2

Creator: Laing, Edmundo

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	

N/A

Eurofins Carlsbad

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/23/2025 3:42:02 PM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8500-1

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

Brisma Tel

Generated 7/23/2025 3:42:02 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies 7/23/2025

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8500-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

Eurofins Carlsbad 7/23/2025

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-8500-1 Project/Site: Mulva SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

74 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**

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8500-1

Project: Mulva

Job ID: 890-8500-1 Eurofins Carlsbad

Job Narrative 890-8500-1

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 7/22/2025 2:05 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 2.8°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: The surrogate recovery for the blank associated with preparation batch 880-114776 and analytical batch 880-114802 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.

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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Matrix: Solid

Lab Sample ID: 890-8500-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8500-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: SW-6

Date Collected: 07/22/25 11:00 Date Received: 07/22/25 14:05

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 13:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 13:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 13:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/23/25 08:41	07/23/25 13:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 13:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/23/25 08:41	07/23/25 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				07/23/25 08:41	07/23/25 13:56	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/23/25 08:41	07/23/25 13:56	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	H	0.00399		mg/Kg			07/23/25 13:56	1
• •					g/rtg			01/20/20 10:00	
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (C	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (C	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9	ics (DRO) (0 Qualifier	RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (0 Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg		· ·	Analyzed 07/23/25 13:38	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)		Unit mg/Kg Unit		Prepared	Analyzed 07/23/25 13:38 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 49.9 sel Range Orga Result <49.9	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Uni	(GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 07/23/25 07:47	Analyzed 07/23/25 13:38 Analyzed 07/23/25 13:38	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Uni	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47	Analyzed 07/23/25 13:38 Analyzed 07/23/25 13:38 07/23/25 13:38	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result 49.9 449.9	cos (DRO) (Control of the control of	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47 07/23/25 07:47	Analyzed 07/23/25 13:38 Analyzed 07/23/25 13:38 07/23/25 13:38 07/23/25 13:38	Dil Face
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	cos (DRO) (Control of the control of	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47 07/23/25 07:47 Prepared	Analyzed 07/23/25 13:38 Analyzed 07/23/25 13:38 07/23/25 13:38 07/23/25 13:38 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery** 83 78	Company of the compan	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47 07/23/25 07:47 Prepared 07/23/25 07:47	Analyzed 07/23/25 13:38 Analyzed 07/23/25 13:38 07/23/25 13:38 Analyzed 07/23/25 13:38	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery **83 78 **Chromatograp**	Company of the compan	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/23/25 07:47 07/23/25 07:47 07/23/25 07:47 Prepared 07/23/25 07:47	Analyzed 07/23/25 13:38 Analyzed 07/23/25 13:38 07/23/25 13:38 Analyzed 07/23/25 13:38	Dil Fac

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8500-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8500-1	SW-6	97	98
LCS 880-114786/1-A	Lab Control Sample	105	100
LCSD 880-114786/2-A	Lab Control Sample Dup	105	104
MB 880-114786/5-A	Method Blank	108	89
Surrogate Legend			
BFB = 4-Bromofluorober	nzene (Surr)		
DFBZ = 1,4-Difluorobenz	zene (Surr)		

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8500-1	SW-6	83	78	
LCS 880-114776/2-A	Lab Control Sample	92	100	
LCSD 880-114776/3-A	Lab Control Sample Dup	108	97	
MB 880-114776/1-A	Method Blank	137 S1+	136 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8500-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114786/5-A

Lab Sample ID: LCS 880-114786/1-A

Lab Sample ID: LCSD 880-114786/2-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 114784

Analysis Batch: 114784

Analysis Batch: 114784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114786

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/23/25 08:41	07/23/25 11:31	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		07/23/25 08:41	07/23/25 11:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	 07/23/25 08:41	07/23/25 11:31	1
1.4-Difluorobenzene (Surr)	89		70 - 130	07/23/25 08:41	07/23/25 11:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114786

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08684 mg/Kg 87 70 - 130 Toluene 0.100 0.08407 mg/Kg 84 70 - 130 0.100 95 Ethylbenzene 0.09456 mg/Kg 70 - 130 0.200 94 70 - 130 m-Xylene & p-Xylene 0.1879 mg/Kg 0.100 0.09317 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 114786

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 0.09520 Benzene 0.100 mg/Kg 95 70 - 130 9 35 Toluene 0.100 0.08802 mg/Kg 88 70 - 130 5 35 Ethylbenzene 0.100 0.09836 mg/Kg 98 70 - 130 35 m-Xylene & p-Xylene 0.200 0.1946 mg/Kg 97 70 - 130 35 0.100 0.09686 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8500-1

SDG: Lea County, NM

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

Lab Sample ID: MB 880-114776/1-A

Matrix: Solid

Analysis Batch: 114802

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114776

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/23/25 07:47	07/23/25 08:29	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				07/23/25 07:47	07/23/25 08:29	1

Lab Sample ID: LCS 880-114776/2-A Client Sample ID: Lab Control Sample

70 - 130

Matrix: Solid

o-Terphenyl

Analysis Batch: 114802

Prep Type: Total/NA

07/23/25 08:29

07/23/25 07:47

Prep Batch: 114776

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 1059 106 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1068 mg/Kg 107 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 92 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: LCSD 880-114776/3-A

Matrix: Solid Analysis Batch: 114802

Prep Type: Total/NA

Prep Batch: 114776

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	991.2		mg/Kg		99	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	936.6		mg/Kg		94	70 - 130	13	20

LCSD LCSD

136 S1+

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	108	70 - 130
o-Terphenyl	97	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-114762/1-A

Matrix: Solid

Analysis Batch: 114796

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			07/23/25 10:13	1

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8500-1

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-114762/2-A

Matrix: Solid

Lab Sample ID: LCSD 880-114762/3-A

Analysis Batch: 114796

Matrix: Solid

Analysis Batch: 114796

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 225.8 mg/Kg 90 90 - 110

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 229.4 mg/Kg 92 90 - 110 2 20

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8500-1 SDG: Lea County, NM

GC VOA

Analysis Batch: 114784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8500-1	SW-6	Total/NA	Solid	8021B	114786
MB 880-114786/5-A	Method Blank	Total/NA	Solid	8021B	114786
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	8021B	114786
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114786

Prep Batch: 114786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8500-1	SW-6	Total/NA	Solid	5035	
MB 880-114786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8500-1	SW-6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8500-1	SW-6	Total/NA	Solid	8015NM Prep	
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 114802

Lab Sample ID 890-8500-1	Client Sample ID SW-6	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 114776
MB 880-114776/1-A	Method Blank	Total/NA	Solid	8015B NM	114776
LCS 880-114776/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114776
LCSD 880-114776/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114776

Analysis Batch: 114856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8500-1	SW-6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 114762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-8500-1	SW-6	Soluble	Solid	DI Leach
MB 880-114762/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

Analysis Batch: 114796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8500-1	SW-6	Soluble	Solid	300.0	114762
MB 880-114762/1-A	Method Blank	Soluble	Solid	300.0	114762
LCS 880-114762/2-A	Lab Control Sample	Soluble	Solid	300.0	114762
LCSD 880-114762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	114762

Lab Chronicle

Client: Earth Systems Response and Restoration

Job ID: 890-8500-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: SW-6

Date Received: 07/22/25 14:05

Lab Sample ID: 890-8500-1 Date Collected: 07/22/25 11:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	114786	07/23/25 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114784	07/23/25 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			114861	07/23/25 13:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			114856	07/23/25 13:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	114776	07/23/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	114802	07/23/25 13:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	114762	07/22/25 16:45	SA	EET MID
Soluble	Analysis	300.0		1			114796	07/23/25 13:40	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8500-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Mulva

Job ID: 890-8500-1 SDG: Lea County, NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 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

Eurofins Carlsbad

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Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8500-1

SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-8500-1	SW-6	Solid	07/22/25 11:00	07/22/25 14:05	0-4	

eurofins Environment

Chain of Custody

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

Received by: (Signature) Nation Date/Time Relinquished by: (Signature) Nation Relinquished by: (Signature) Nation Relinquished by: (Signature) Nation Relinquished by: (Signature) Nation Relinquished by: (Signature)	rder from client company to Eurofins Xenco, its affiliates and subcon sponsibility for any losses or expenses incurred by the client if such for each sample submitted to Eurofins Xenco, but not analyzed. The	u Fe				S 7.22.25 11:00 0-4 Comp 1 X X X X	Matrix Sampled Sampled Depth (feet) Comp # CO FP Ch EX Hold 24 Hr Ru	-NM	W/A Temperature Reading: \$0	2.0-	Thermometer ID:	Temp Blank: (Yes) No Wet Ice: (Yes) No ete	received by 4:30pm	TAT starts the day	Lea County, NM Due Date: 24 Rush TAT	210 ☐ Routine ☑ Rush Code	Mulva Turn Around ANALYSIS REQUEST	Email: gmoreno@earthsys.net Delive	e ZIP:	Earth Systems R&R Company Name: Earth Systems Progr	
Received by: (Signature)	ed.	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471			nAPP2509160854	Incident Number	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	~		Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	ST Preservative Codes	Deliverables: EDD ADaPT Other:		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8500-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8500 List Number: 1

Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8500-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 07/23/25 08:23 AM

Login Number: 8500 List Number: 2

Creator: Laing, Edmundo

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/1/2025 11:53:58 AM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8550-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 8/1/2025 11:53:58 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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14

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8550-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

2

3

4

6

8

10

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration

Project/Site: Mulva SDG: Lea County, NM

Job ID: 890-8550-1

Qualifiers

GC VOA	
Qualifier	

4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased

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

Qualifier Description

GC Semi VOA

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

HPLC/IC Qualifier

Qu	alifier	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)
100	Limit of Quantitation (DoD/DOE)

Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8550-1

Project: Mulva

Eurofins Carlsbad Job ID: 890-8550-1

Job Narrative 890-8550-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 7/31/2025 10:36 AM. 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 0.0°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS-2 (890-8550-1).

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-2 (890-8550-1) and (890-8550-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-115564 and analytical batch 880-115561 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.

Diesel Range Organics

Method 8015MOD NM: Though the laboratory control sample duplicate (LCSD) did run, a report for the analysis did not generate. The matrix spike/matrix spike duplicate (MS/MSD) meet acceptance criteria and are thereby used to validate the batch.

(LCS 880-115578/2-A)

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

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

Matrix: Solid

Lab Sample ID: 890-8550-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8550-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: CS-2

Date Collected: 07/31/25 08:30 Date Received: 07/31/25 10:36

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0229		0.0202		mg/Kg		08/01/25 08:43	08/01/25 12:18	10
Toluene	0.594		0.101		mg/Kg		08/01/25 08:43	08/01/25 11:37	50
Ethylbenzene	0.858		0.101		mg/Kg		08/01/25 08:43	08/01/25 11:37	50
m-Xylene & p-Xylene	3.22		0.202		mg/Kg		08/01/25 08:43	08/01/25 11:37	50
o-Xylene	1.25		0.101		mg/Kg		08/01/25 08:43	08/01/25 11:37	50
Xylenes, Total	4.47		0.202		mg/Kg		08/01/25 08:43	08/01/25 11:37	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				08/01/25 08:43	08/01/25 11:37	50
1,4-Difluorobenzene (Surr)	80		70 - 130				08/01/25 08:43	08/01/25 11:37	50
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.94		0.202		mg/Kg			08/01/25 12:18	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	120		49.8		mg/Kg			08/01/25 11:11	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/01/25 10:42	08/01/25 11:11	1
Diesel Range Organics (Over	120		49.8		mg/Kg		08/01/25 10:42	08/01/25 11:11	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/01/25 10:42	08/01/25 11:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				08/01/25 10:42	08/01/25 11:11	
1-Chlorooctane	105		10 - 130						1
1-Chlorooctane o-Terphenyl	105 114		70 - 130 70 - 130				08/01/25 10:42	08/01/25 11:11	1 1
o-Terphenyl	114	ohy - Solubl	70 - 130				08/01/25 10:42		•
	114 Chromatograp	ohy - Solubl Qualifier	70 - 130	MDL	Unit	D	08/01/25 10:42 Prepared		•

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8550-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8550-1	CS-2	134 S1+	80	
890-8550-1 MS	CS-2	130	89	
890-8550-1 MSD	CS-2	152 S1+	82	
LCS 880-115564/1-A	Lab Control Sample	99	100	
LCSD 880-115564/2-A	Lab Control Sample Dup	97	99	
MB 880-115564/5-A	Method Blank	102	93	
Surrogate Legend				
BFB = 4-Bromofluorobenz	ene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8550-1	CS-2	105	114	
890-8550-1 MS	CS-2	116	120	
890-8550-1 MSD	CS-2	117	119	
LCS 880-115578/2-A	Lab Control Sample	118	118	
MB 880-115578/1-A	Method Blank	97	108	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Released to Imaging: 9/30/2025 3:34:09 PM

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8550-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115564/5-A

Lab Sample ID: LCS 880-115564/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 115561

Analysis Batch: 115561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115564

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/25 08:43	08/01/25 11:15	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/01/25 08:43	08/01/25 11:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/01/25 08:43	08/01/25 11:15	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115564

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09152 mg/Kg 92 70 - 130 Toluene 0.100 0.08963 mg/Kg 90 70 - 130 0.100 102 Ethylbenzene 0.1020 mg/Kg 70 - 130 0.200 101 70 - 130 m-Xylene & p-Xylene 0.2024 mg/Kg 0.100 0.1006 101 70 - 130 o-Xylene mg/Kg

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 115561

Lab Sample ID: LCSD 880-115564/2-A

Prep Type: Total/NA **Prep Batch: 115564** LCSD LCSD

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.09461		mg/Kg		95	70 - 130	3	35
0.100	0.09016		mg/Kg		90	70 - 130	1	35
0.100	0.1031		mg/Kg		103	70 - 130	1	35
0.200	0.2024		mg/Kg		101	70 - 130	0	35
0.100	0.1007		mg/Kg		101	70 - 130	0	35
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.09461 0.100 0.09016 0.100 0.1031 0.200 0.2024	Added Result Qualifier 0.100 0.09461 0.100 0.09016 0.100 0.1031 0.200 0.2024	Added Result Qualifier Unit 0.100 0.09461 mg/Kg 0.100 0.09016 mg/Kg 0.100 0.1031 mg/Kg 0.200 0.2024 mg/Kg	Added Result Qualifier Unit D 0.100 0.09461 mg/Kg 0.100 0.09016 mg/Kg 0.100 0.1031 mg/Kg 0.200 0.2024 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09461 mg/Kg 95 0.100 0.09016 mg/Kg 90 0.100 0.1031 mg/Kg 103 0.200 0.2024 mg/Kg 101	Added Result Qualifier Unit D %Rec Limits 0.100 0.09461 mg/Kg 95 70 - 130 0.100 0.09016 mg/Kg 90 70 - 130 0.100 0.1031 mg/Kg 103 70 - 130 0.200 0.2024 mg/Kg 101 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.09461 mg/Kg 95 70 - 130 3 0.100 0.09016 mg/Kg 90 70 - 130 1 0.100 0.1031 mg/Kg 103 70 - 130 1 0.200 0.2024 mg/Kg 101 70 - 130 0

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-8550-1 MS

Matrix: Solid

Analysis Batch: 115561

Client Sample ID: CS-2 Prep Type: Total/NA

Prep Batch: 115564

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.101	U F1	0.100	3.153	F1	mg/Kg		3153	70 - 130	
Toluene	0.594		0.100	4.014	4	mg/Kg		3420	70 - 130	

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8550-1 SDG: Lea County, NM

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

Lab Sample ID: 890-8550-1 MS **Matrix: Solid**

Lab Sample ID: 890-8550-1 MSD

Analysis Batch: 115561

Client Sample ID: CS-2 Prep Type: Total/NA

Prep Batch: 115564

Sample	Sample	Бріке	INIO	IVIS				%Rec
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
0.858		0.100	4.860	4	mg/Kg		4002	70 - 130
3.22		0.200	11.17	4	mg/Kg		3974	70 - 130
1.25		0.100	5.128	4	mg/Kg		3874	70 - 130
	0.858 3.22	Result Qualifier 0.858 3.22	Result 0.858 Qualifier Qua	Result 0.858 Qualifier Qualifier Added Added Qualifier Result Qualifier 0.858 0.100 4.860 3.22 0.200 11.17	Result 0.858 Qualifier Added 0.100 Result 4.860 Qualifier 4 3.22 0.200 11.17 4	Result 0.858 Qualifier Qualifier 0.200 Added Added 4.860 Result Qualifier 4.860 Unit mg/Kg 3.22 0.200 11.17 4 mg/Kg	Result 0.858 Qualifier Added 0.100 Result 4.860 Qualifier 4 mg/Kg Unit mg/Kg D 3.22 0.200 11.17 4 mg/Kg 4 mg/Kg	Result 0.858 Qualifier Qualifier Added

MS MS

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

Client Sample ID: CS-2

Prep Type: Total/NA

26

Matrix: Solid Analysis Batch: 115561 Prep Batch: 115564 Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.101 UF1 3.099 F1 mg/Kg 3099 70 - 130 2 35 Toluene 0.594 0.100 4.786 4 mg/Kg 4192 70 - 130 18 35 Ethylbenzene 0.858 0.100 6.091 4 mg/Kg 5233 70 - 130 22 35 3.22 0.200 14.18 4 5479 70 - 130 35 m-Xylene & p-Xylene mg/Kg 24

6.638 4

mg/Kg

0.100

MSD MSD

1.25

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

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

Lab Sample ID: MB 880-115578/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 115584

Client Sample ID: Method Blank

70 - 130

5384

Prep Type: Total/NA

Prep Batch: 115578

	MB	MR							
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	r	mg/Kg		08/01/25 10:41	08/01/25 09:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	r	mg/Kg		08/01/25 10:41	08/01/25 09:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	r	mg/Kg		08/01/25 10:41	08/01/25 09:27	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/01/25 10:41	08/01/25 09:27	1
o-Terphenyl	108		70 - 130	08/01/25 10:41	08/01/25 09:27	1

Lab Sample ID: LCS 880-115578/2-A

Matrix: Solid Analysis Batch: 115584 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA **Prep Batch: 115578**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1017		mg/Kg		102	70 - 130	 _
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	886.4		mg/Kg		89	70 - 130	
C10-C28)								

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8550-1 SDG: Lea County, NM

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

LCS LCS

120

Lab Sample ID: LCS 880-115578/2-A **Matrix: Solid**

Analysis Batch: 115584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 115578**

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 118 70 - 130 o-Terphenyl 118 70 - 130

Lab Sample ID: 890-8550-1 MS Client Sample ID: CS-2

Matrix: Solid

Analysis Batch: 115584

Prep Type: Total/NA

Prep Batch: 115578 %Rec Limits

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec <49.8 Ū 1000 968.1 94 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 972.0 120 mg/Kg 85 70 - 130C10-C28)

70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 116

Lab Sample ID: 890-8550-1 MSD

Matrix: Solid

o-Terphenyl

Analysis Batch: 115584

Client Sample ID: CS-2 Prep Type: Total/NA

Prep Batch: 115578

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.8	U	1000	976.3		mg/Kg		95	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	120		1000	977.0		mg/Kg		85	70 - 130	1	20	
C10-C28)												
Diesel Range Organics (Over	120		1000	977.0		mg/Kg		85	70 - 130	1	20	

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 117 o-Terphenyl 119 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115549/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 115563

мв мв Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <10.0 U 10.0 mg/Kg 08/01/25 09:26

Lab Sample ID: LCS 880-115549/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 115563

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit Chloride 250 236.6 mg/Kg 90 - 110

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8550-1

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-115549/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 115563

Spike LCSD LCSD %Rec RPD Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Chloride 250 236.8 mg/Kg 95 90 - 110

Client Sample ID: CS-2

Lab Sample ID: 890-8550-1 MS **Matrix: Solid** Analysis Batch: 115563

Prep Type: Soluble

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 14.9 249 260.0 mg/Kg 98 90 - 110

Lab Sample ID: 890-8550-1 MSD Client Sample ID: CS-2 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 115563

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 14.9 249 260.8 90 - 110 20 mg/Kg

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8550-1 Project/Site: Mulva SDG: Lea County, NM

GC VOA

Analysis Batch: 115561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1	CS-2	Total/NA	Solid	8021B	115564
890-8550-1	CS-2	Total/NA	Solid	8021B	115564
MB 880-115564/5-A	Method Blank	Total/NA	Solid	8021B	115564
LCS 880-115564/1-A	Lab Control Sample	Total/NA	Solid	8021B	115564
LCSD 880-115564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115564
890-8550-1 MS	CS-2	Total/NA	Solid	8021B	115564
890-8550-1 MSD	CS-2	Total/NA	Solid	8021B	115564

Prep Batch: 115564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1	CS-2	Total/NA	Solid	5035	
MB 880-115564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8550-1 MS	CS-2	Total/NA	Solid	5035	
890-8550-1 MSD	CS-2	Total/NA	Solid	5035	

Analysis Batch: 115600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1	CS-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 115578

Lab Sample ID 890-8550-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-115578/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
890-8550-1 MS	CS-2	Total/NA	Solid	8015NM Prep	
890-8550-1 MSD	CS-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115584

Lab Sample ID 890-8550-1	Client Sample ID CS-2	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 115578
MB 880-115578/1-A	Method Blank	Total/NA	Solid	8015B NM	115578
LCS 880-115578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115578
890-8550-1 MS	CS-2	Total/NA	Solid	8015B NM	115578
890-8550-1 MSD	CS-2	Total/NA	Solid	8015B NM	115578

Analysis Batch: 115596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1	CS-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1	CS-2	Soluble	Solid	DI Leach	-
MB 880-115549/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115549/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115549/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8550-1 MS	CS-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8550-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 115549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1 MSD	CS-2	Soluble	Solid	DI Leach	

Analysis Batch: 115563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8550-1	CS-2	Soluble	Solid	300.0	115549
MB 880-115549/1-A	Method Blank	Soluble	Solid	300.0	115549
LCS 880-115549/2-A	Lab Control Sample	Soluble	Solid	300.0	115549
LCSD 880-115549/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115549
890-8550-1 MS	CS-2	Soluble	Solid	300.0	115549
890-8550-1 MSD	CS-2	Soluble	Solid	300.0	115549

Eurofins Carlsbad

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Lab Chronicle

Client: Earth Systems Response and Restoration

Job ID: 890-8550-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: CS-2

Lab Sample ID: 890-8550-1

CS

08/01/25 09:43

Matrix: Solid

EET MID

Date Collected: 07/31/25 08:30 Date Received: 07/31/25 10:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	115564	08/01/25 08:43	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	115561	08/01/25 11:37	MNR	EET MID
Total/NA	Prep	5035			4.95 g	5 mL	115564	08/01/25 08:43	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	115561	08/01/25 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115600	08/01/25 12:18	SA	EET MID
Total/NA	Analysis	8015 NM		1			115596	08/01/25 11:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	115578	08/01/25 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115584	08/01/25 11:11	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115549	07/31/25 17:02	SMC	EET MID

115563

Laboratory References:

Soluble

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

300.0

Analysis

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8550-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	ority Program		Identification Number	Expiration Date
Texas	NELA	P	T104704400	06-30-26
• ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Mulva

Job ID: 890-8550-1 SDG: Lea County. NM

SDG: Lea 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: Mulva

Job ID: 890-8550-1

SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8550-1	CS-2	Solid	07/31/25 08:30	07/31/25 10:36	8

Relinquished by: (Signature)

XXXX

1/31 10362 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

6

Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

Chain of Custody

Project Manager Cilbert Morero Company Name Earth Systems R&R Company Name Earth Systems R&R Company Name Earth Systems R&R Company Name Earth Systems Cilbert Morero Cil	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
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8550-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8550 List Number: 1

Creator: Bruns, Shannon

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: 890-8550-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 08/01/25 08:06 AM

Login Number: 8550 List Number: 2

Creator: Laing, Edmundo

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/1/2025 11:53:57 AM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8551-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 8/1/2025 11:53:57 AM

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

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14

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8551-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

1

2

3

6

8

10

11

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration Project/Site: Mulva

Job ID: 890-8551-1

SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Percent Recovery %R 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8551-1

Project: Mulva

Eurofins Carlsbad Job ID: 890-8551-1

Job Narrative 890-8551-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 7/31/2025 10:36 AM. 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 0.0°C.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-3 (890-8551-1), (890-8550-A-1-F) and (890-8550-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: CS-3 (890-8551-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Though the laboratory control sample duplicate (LCSD) did run, a report for the analysis did not generate. The matrix spike/matrix spike duplicate (MS/MSD) meet acceptance criteria and are thereby used to validate the batch.

(LCS 880-115578/2-A)

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.

Matrix: Solid

Lab Sample ID: 890-8551-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8551-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: CS-3

Date Collected: 07/31/25 08:35 Date Received: 07/31/25 10:36

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.287		0.100		mg/Kg		08/01/25 08:43	08/01/25 11:57	5
Toluene	6.27		0.100		mg/Kg		08/01/25 08:43	08/01/25 11:57	5
Ethylbenzene	3.88		0.100		mg/Kg		08/01/25 08:43	08/01/25 11:57	5
m-Xylene & p-Xylene	13.1		0.201		mg/Kg		08/01/25 08:43	08/01/25 11:57	5
o-Xylene	5.11		0.100		mg/Kg		08/01/25 08:43	08/01/25 11:57	5
Xylenes, Total	18.2		0.201		mg/Kg		08/01/25 08:43	08/01/25 11:57	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130				08/01/25 08:43	08/01/25 11:57	5
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/25 08:43	08/01/25 11:57	5
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese	•		3 C)						
Analyte	•		•						
		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
	1740	Qualifier	RL 50.5	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/01/25 11:56	
Total TPH	1740		50.5	MDL		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	1740 sel Range Orga		50.5			<u>D</u>	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	1740 sel Range Orga	nics (DRO)	50.5 (GC)		mg/Kg		<u> </u>	08/01/25 11:56	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	1740 sel Range Orga Result	nics (DRO)	50.5 (GC)		mg/Kg		Prepared	08/01/25 11:56 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result 440	nics (DRO) Qualifier	50.5 (GC) RL 50.5		mg/Kg Unit mg/Kg		Prepared 08/01/25 10:42	08/01/25 11:56 Analyzed 08/01/25 11:56	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result 440	nics (DRO) Qualifier	50.5 (GC) RL 50.5 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/01/25 10:42 08/01/25 10:42	08/01/25 11:56 Analyzed 08/01/25 11:56 08/01/25 11:56	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	1740 sel Range Orga Result 440 1300 <50.5	nics (DRO) Qualifier	50.5 (GC) RL 50.5 50.5 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/01/25 10:42 08/01/25 10:42 08/01/25 10:42	08/01/25 11:56 Analyzed 08/01/25 11:56 08/01/25 11:56 08/01/25 11:56	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	1740 sel Range Orga Result 440 1300 <50.5 %Recovery 125	nics (DRO) Qualifier	50.5 (GC) RL 50.5 50.5 50.5 <i>Limits</i>		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/01/25 10:42 08/01/25 10:42 08/01/25 10:42 Prepared	08/01/25 11:56 Analyzed 08/01/25 11:56 08/01/25 11:56 08/01/25 11:56 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	1740 sel Range Orga Result 440 1300 <50.5 %Recovery 125 139	Qualifier U Qualifier S1+	50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/01/25 10:42 08/01/25 10:42 08/01/25 10:42 Prepared 08/01/25 10:42	08/01/25 11:56 Analyzed 08/01/25 11:56 08/01/25 11:56 08/01/25 11:56 Analyzed 08/01/25 11:56	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	1740 sel Range Orga Result 440 1300 <50.5 %Recovery 125 139 1 Chromatograp	Qualifier U Qualifier S1+	50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/01/25 10:42 08/01/25 10:42 08/01/25 10:42 Prepared 08/01/25 10:42	08/01/25 11:56 Analyzed 08/01/25 11:56 08/01/25 11:56 08/01/25 11:56 Analyzed 08/01/25 11:56	Dil Fa

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8551-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8551-1	CS-3	171 S1+	89
LCS 880-115564/1-A	Lab Control Sample	99	100
LCSD 880-115564/2-A	Lab Control Sample Dup	97	99
MB 880-115564/5-A	Method Blank	102	93
Surrogate Legend			
BFB = 4-Bromofluorober	nzene (Surr)		

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8551-1	CS-3	125	139 S1+	
LCS 880-115578/2-A	Lab Control Sample	118	118	
MB 880-115578/1-A	Method Blank	97	108	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Job ID: 890-8551-1 Project/Site: Mulva SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115564/5-A

Matrix: Solid

Analysis Batch: 115561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115564

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/25 08:43	08/01/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/25 08:43	08/01/25 11:15	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		08/01/25 08:43	08/01/25 11:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130	C	08/01/25 08:43	08/01/25 11:15	1

Lab Sample ID: LCS 880-115564/1-A

Matrix: Solid

Analysis Batch: 115561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115564

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09152		mg/Kg		92	70 - 130	
Toluene	0.100	0.08963		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2024		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	
I and the second se								

LCS LCS

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

Lab Sample ID: LCSD 880-115564/2-A

Matrix: Solid

Analysis Batch: 115561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115564

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 0.09461 Benzene 0.100 mg/Kg 95 70 - 130 35 Toluene 0.100 0.09016 mg/Kg 90 70 - 130 35 Ethylbenzene 0.100 0.1031 mg/Kg 103 70 - 130 35 0.200 0.2024 m-Xylene & p-Xylene mg/Kg 101 70 - 130 35 0.100 0.1007 101 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8551-1 SDG: Lea County, NM

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

Lab Sample ID: MB 880-115578/1-A

Matrix: Solid

(GRO)-C6-C10

Matrix: Solid

Analysis Batch: 115584

Analyte

C10-C28)

Analysis Batch: 115584

Gasoline Range Organics

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-115578/2-A

Client Sample ID: Method Blank

08/01/25 09:27

Prep Type: Total/NA

Prep Batch: 115578

мв мв Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 08/01/25 10:41 08/01/25 09:27 mg/Kg 50.0 08/01/25 10:41 08/01/25 09:27 <50.0 U mg/Kg

mg/Kg

MB MB

<50.0 U

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 97 70 - 130 08/01/25 10:41 08/01/25 09:27 o-Terphenyl 108 70 - 130 08/01/25 10:41 08/01/25 09:27

50.0

Client Sample ID: Lab Control Sample

08/01/25 10:41

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Batch: 115578

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 1017 102 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 886.4 mg/Kg 89 70 - 130C10-C28)

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 118 70 - 130 o-Terphenyl 118 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115549/1-A

Matrix: Solid

Analysis Batch: 115563

Prep Type: Soluble мв мв

Analyte Result Qualifier RLMDL Unit D Prepared

Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 08/01/25 09:26

Lab Sample ID: LCS 880-115549/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 115563

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits Chloride 250 236.6 95 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-115549/3-A

Matrix: Solid

Analysis Ratch: 115563

Allalysis Datcii. 113303									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	236.8		mg/Kg		95	90 - 110	0	20

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8551-1 SDG: Lea County, NM

GC VOA

Analysis Batch: 115561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Total/NA	Solid	8021B	115564
MB 880-115564/5-A	Method Blank	Total/NA	Solid	8021B	115564
LCS 880-115564/1-A	Lab Control Sample	Total/NA	Solid	8021B	115564
LCSD 880-115564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115564

Prep Batch: 115564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Total/NA	Solid	5035	
MB 880-115564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 115601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 115578

Lab Sample ID 890-8551-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-115578/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Total/NA	Solid	8015B NM	115578
MB 880-115578/1-A	Method Blank	Total/NA	Solid	8015B NM	115578
LCS 880-115578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115578

Analysis Batch: 115597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Soluble	Solid	DI Leach	
MB 880-115549/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115549/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115549/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 115563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8551-1	CS-3	Soluble	Solid	300.0	115549
MB 880-115549/1-A	Method Blank	Soluble	Solid	300.0	115549
LCS 880-115549/2-A	Lab Control Sample	Soluble	Solid	300.0	115549
LCSD 880-115549/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115549

Lab Chronicle

Client: Earth Systems Response and Restoration

Job ID: 890-8551-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: CS-3

Date Received: 07/31/25 10:36

Lab Sample ID: 890-8551-1 Date Collected: 07/31/25 08:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115564	08/01/25 08:43	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	115561	08/01/25 11:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115601	08/01/25 11:57	SA	EET MID
Total/NA	Analysis	8015 NM		1			115597	08/01/25 11:56	SA	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	115578	08/01/25 10:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115584	08/01/25 11:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115549	07/31/25 17:02	SMC	EET MID
Soluble	Analysis	300.0		1			115563	08/01/25 10:00	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8551-1 Project/Site: Mulva SDG: Lea 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	NELA	Р	T104704400	06-30-26	
	are included in this report, but ses not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
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: Mulva

Job ID: 890-8551-1 SDG: Lea County, NM

Protocol	Laboratory
SW846	EET MID
AL SOP	EET MID
SW846	EET MID
SW846	EET MID
ΡΔ	EET MID

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: Mulva

Job ID: 890-8551-1 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8551-1	CS-3	Solid	07/31/25 08:35	07/31/25 10:36	8

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uished by: (Signa

Received by: (Signature)

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1036

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.;

City, State ZIP:

Carlsbad, NM, 88220

City, State ZIP:

Project Manager: Company Name: ddress:

Gilbert Moreno Earth Systems R&R 1910 Resource Ct.

Bill to: (if different)

Company Name: Address:

Earth Systems

State of Project:

Reporting: Level III PST/UST TRRP

ADaPT \square

Level IV

Program: UST/PST \square PRP \square Brownfields \square RRC \square Superfund \square

Work Order Commen

Chain of Custody

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

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Chairl of Custody	8551 Chair		
Custody			
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8551-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8551 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
		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: 890-8551-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 08/01/25 08:06 AM

Login Number: 8551 List Number: 2

Creator: Laing, Edmundo

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	- 3
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	

Released to Imaging: 9/30/2025 3:34:09 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/7/2025 7:59:02 AM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8570-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 8/7/2025 7:59:02 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8570-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

1

2

3

6

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10

11

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114

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

Decision Level Concentration (Radiochemistry) DLC

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 Method Quantitation Limit MQL

Not Calculated NC

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8570-1

Project: Mulva

Job ID: 890-8570-1 Eurofins Carlsbad

Job Narrative 890-8570-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/6/2025 8:59 AM. 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 -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW-10 (890-8570-1).

GC VOA

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

Diesel Range Organics

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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Matrix: Solid

Lab Sample ID: 890-8570-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: SW-10

Date Collected: 08/05/25 15:10 Date Received: 08/06/25 08:59

Sample Depth: 6-10

Chloride

Released to Imaging: 9/30/2025 3:34:09 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 21:00	08/07/25 03:34	1
Toluene	0.0107		0.00200		mg/Kg		08/06/25 21:00	08/07/25 03:34	1
Ethylbenzene	0.00714		0.00200		mg/Kg		08/06/25 21:00	08/07/25 03:34	1
m-Xylene & p-Xylene	0.0197		0.00400		mg/Kg		08/06/25 21:00	08/07/25 03:34	1
o-Xylene	0.00754		0.00200		mg/Kg		08/06/25 21:00	08/07/25 03:34	1
Xylenes, Total	0.0272		0.00400		mg/Kg		08/06/25 21:00	08/07/25 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/06/25 21:00	08/07/25 03:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/06/25 21:00	08/07/25 03:34	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0451		0.00400		mg/Kg			08/07/25 03:34	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/07/25 02:13	Dil Fac
		Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier U	RL 50.0			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg	=	<u> </u>	08/07/25 02:13	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg	=	Prepared	08/07/25 02:13 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 Sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 08/07/25 07:32	08/07/25 02:13 Analyzed 08/07/25 02:13	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/07/25 07:32 08/07/25 07:32	08/07/25 02:13 Analyzed 08/07/25 02:13 08/07/25 02:13	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/07/25 07:32 08/07/25 07:32	08/07/25 02:13 Analyzed 08/07/25 02:13 08/07/25 02:13 08/07/25 02:13	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/07/25 07:32 08/07/25 07:32 08/07/25 07:32 Prepared	08/07/25 02:13 Analyzed 08/07/25 02:13 08/07/25 02:13 08/07/25 02:13 Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/07/25 07:32 08/07/25 07:32 08/07/25 07:32 Prepared 08/07/25 07:32	08/07/25 02:13 Analyzed 08/07/25 02:13 08/07/25 02:13 08/07/25 02:13 Analyzed 08/07/25 02:13	Dil Fac

9.98

15.8

mg/Kg

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08/07/25 03:17

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8570-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8570-1	SW-10	106	92	
LCS 880-115979/1-A	Lab Control Sample	96	101	
LCSD 880-115979/2-A	Lab Control Sample Dup	105	106	
MB 880-115940/5-A	Method Blank	99	97	
MB 880-115979/5-A	Method Blank	96	91	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8570-1	SW-10	99	108	
LCS 880-116031/2-A	Lab Control Sample	121	122	
LCSD 880-116031/3-A	Lab Control Sample Dup	120	121	
MB 880-116031/1-A	Method Blank	108	121	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Released to Imaging: 9/30/2025 3:34:09 PM

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115940/5-A

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene Xylenes, Total

Analysis Batch: 115927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115940

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
<0.00400	U	0.00400		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	08/06/25 09:0	08/06/25 11:36	1
1,4-Difluorobenzene (Surr)	97	70 ₋ 130	08/06/25 09:0	03 08/06/25 11:36	1

0.00400

Lab Sample ID: MB 880-115979/5-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Method Blank

08/06/25 11:36

08/06/25 09:03

Prep Type: Total/NA

Prep Batch: 115979

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 11:26	08/06/25 22:34	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	1	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/	/06/25 11:26	08/06/25 22:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/	/06/25 11:26	08/06/25 22:34	1

Lab Sample ID: LCS 880-115979/1-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115979

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09652		mg/Kg		97	70 - 130	
Toluene	0.100	0.09198		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-115979/2-A

Matrix: Solid

Analysis Batch: 115927

Client Sample	ID: Lab Control	Sample Dup
---------------	------------------------	------------

Prep Type: Total/NA

Prep Batch: 115979

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1007	,	mg/Kg		101	70 - 130	4	35

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Page 8 of 19

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-115979/2-A **Matrix: Solid**

Analysis Batch: 115927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 115979**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09732		mg/Kg		97	70 - 130	6	35
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130	6	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-116031/1-A

Matrix: Solid

Analysis Batch: 115935

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116031

	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		08/07/25 07:32	08/06/25 23:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/25 07:32	08/06/25 23:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/25 07:32	08/06/25 23:16	1

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/07/25 07:32	08/06/25 23:16	1
o-Terphenyl	121		70 - 130	08/07/25 07:32	08/06/25 23:16	1

Lab Sample ID: LCS 880-116031/2-A

Matrix: Solid

Analysis Batch: 115935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 116031**

Spike LCS LCS babbA Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics 1000 1038 mg/Kg 104 70 - 130(GRO)-C6-C10 1000 1129 mg/Kg 113 70 - 130 Diesel Range Organics (Over

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: LCSD 880-116031/3-A

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 115935

Gasoline Range Organics

Client Sample ID: Lab Control Sample Dup

70 - 130

%Rec

103

108

Prep Type: Total/NA

Prep Batch: 116031

%Rec RPD Limits RPD Limit 70 - 130 20

Diesel Range Organics (Over C10-C28)

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Spike

Added

1000

1000

LCSD LCSD

1030

1084

Result Qualifier

Unit

mg/Kg

mg/Kg

20

Client: Earth Systems Response and Restoration

Project/Site: Mulva

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

Lab Sample ID: LCSD 880-116031/3-A

Matrix: Solid Analysis Batch: 115935 Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 116031**

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Job ID: 890-8570-1

SDG: Lea County, NM

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 121 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116013/1-A

Matrix: Solid

Analysis Batch: 116027

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10.0 Chloride <10.0 U 08/06/25 23:50 mg/Kg

Lab Sample ID: LCS 880-116013/2-A

Matrix: Solid

Analysis Batch: 116027

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.6 100 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-116013/3-A

Matrix: Solid

Analysis Batch: 116027

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.0 103 90 - 110 20 mg/Kg

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8570-1 SDG: Lea County, NM

GC VOA

Analysis Batch: 115927

Lab Sample ID 890-8570-1	Client Sample ID SW-10	Prep Type Total/NA	Solid	Method 8021B	Prep Batch 115979
MB 880-115940/5-A	Method Blank	Total/NA	Solid	8021B	115940
MB 880-115979/5-A	Method Blank	Total/NA	Solid	8021B	115979
LCS 880-115979/1-A	Lab Control Sample	Total/NA	Solid	8021B	115979
LCSD 880-115979/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115979

Prep Batch: 115940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115940/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 115979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8570-1	SW-10	Total/NA	Solid	5035	
MB 880-115979/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115979/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115979/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8570-1	SW-10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 115935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8570-1	SW-10	Total/NA	Solid	8015B NM	116031
MB 880-116031/1-A	Method Blank	Total/NA	Solid	8015B NM	116031
LCS 880-116031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116031
LCSD 880-116031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116031

Prep Batch: 116031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8570-1	SW-10	Total/NA	Solid	8015NM Prep	
MB 880-116031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8570-1	SW-10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116013

Lab Sample ID 890-8570-1	Client Sample ID SW-10	Prep Type Soluble	Matrix Solid	Method Prep Batch DI Leach
MB 880-116013/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-116013/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-116013/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC

Analysis Batch: 116027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8570-1	SW-10	Soluble	Solid	300.0	116013
MB 880-116013/1-A	Method Blank	Soluble	Solid	300.0	116013
LCS 880-116013/2-A	Lab Control Sample	Soluble	Solid	300.0	116013
LCSD 880-116013/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116013

Lab Chronicle

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: SW-10

Lab Sample ID: 890-8570-1 Date Collected: 08/05/25 15:10 Matrix: Solid

Date Received: 08/06/25 08:59

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	115979	08/06/25 21:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115927	08/07/25 03:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116043	08/07/25 03:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			116048	08/07/25 02:13	SA	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115935	08/07/25 02:13	TKC	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116031	08/07/25 07:32	EL	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116013	08/06/25 14:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	116027	08/07/25 03:17	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8570-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA	Р	T104704400	06-30-26	
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
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: Mulva

Job ID: 890-8570-1 SDG: Lea County, NM

EET MID

ASTM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 8015NM Prep Microextraction SW846 EET MID

Protocol References:

DI Leach

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

Deionized Water Leaching Procedure

Laboratory References:

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

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Released to Imaging: 9/30/2025 3:34:09 PM

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Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8570-1

SDG: Lea County, NM

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-8570-1 SW-10 Solid 08/05/25 15:10 08/06/25 08:59 6-10

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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Environment Testing

Xenco

Company Name: Bill to: (if different)

Earth Systems

State of Project:

Program: UST/PST 🗌 PRP 🗌 Brownfields 🗍 RRC 📗

Superfund []

앜

Level IV

Project Manager:

Gilbert Moreno

Company Name:

Earth Systems R&R

1910 Resource Ct

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Houston, TX (281) 240-4200, Dalla: Chain of Custody

Midland, TX (432) 704-5440, San Anto EL Paso, TX (915) 585-3443, Lubboo Hobbs, NM (575) 392-7550, Carlsbar

mm	Work Order Comm	
Po	www.xenco.com	
		1. NM (575) 988-3199
		ж, ТХ (806) 794-1296
	Work Order No:	nio, TX (210) 509-3334
		s, TX (214) 902-0300

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010									SW-10	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	CC/WO#:	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone: 8	City, State ZIP: C
cument and relinquish will be liable only for th um charge of \$85.00 w	Metal(s) to be ar	0 200.8 / 6020:												Yes No	Yes No (act: Yes No.	Temp Blank:		Santiago Giron	Lea County, NM	210	Mulva	832-541-7719	Carlsbad, NM, 88220
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stitutes a valid d shall not ass project and a c	II .	8RCRA									15:10	Time Sampled	Corrected Temperature:	Reading:	actor:	r.ID:	Wet Ice:	rec	TAT starts the	Due Date:	Routine		Email:	
purchase order from urne any responsibili sharge of \$5 for each	H	13PPM Texas 11									6-10	Depth (feet)	1-0.6	5.0	-0.2	Tumoo	(Yes) No	received by 4:30pm	TAT starts the day received by the lab, if	24 Rush TAT	☑ Rush	Turn Around	Email: gmoreno@earthsys.net	City, State ZIP:
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	Hg: 1631 / 245.1 / 7470 / 7471	SiO ₂ Na Sr TI Sn U V Zn								nAPP2509160854	Incident Number	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂ NaOH: Na		Ŋ	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT U Other:	, <u>i</u>
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ing: 9/3	30/2	02	5 3:	34.	:09	PA	1					Pag	je 1	7	of '	19								

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8570-1

SDG Number: Lea County, NM

List Source: Eurofins Carlsbad

Login Number: 8570 List Number: 1

Creator: Bruns, Shannon

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

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Released to Imaging: 9/30/2025 3:34:09 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8570-1

SDG Number: Lea County, NM

List Source: Eurofins Midland List Creation: 08/07/25 07:30 AM

Login Number: 8570 List Number: 2

Creator: Laing, Edmundo

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

Eurofins Carlsbad

Released to Imaging: 9/30/2025 3:34:09 PM

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/7/2025 7:59:05 AM

JOB DESCRIPTION

Mulva Lea County, NM

JOB NUMBER

890-8571-1

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

Brisma Tel

Generated 8/7/2025 7:59:05 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8571-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

1

2

3

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6

8

11

13

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Definitions/Glossary

Client: Earth Systems Response and Restoration

Project/Site: Mulva SDG: Lea County, NM

Job ID: 890-8571-1

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

Decision Level Concentration (Radiochemistry) DLC

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

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 Method Quantitation Limit MQL

Not Calculated NC

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8571-1

Project: Mulva

Job ID: 890-8571-1 Eurofins Carlsbad

Job Narrative 890-8571-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/6/2025 8:59 AM. 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 -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW-9 (890-8571-1).

GC VOA

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

Diesel Range Organics

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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Matrix: Solid

Lab Sample ID: 890-8571-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8571-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: SW-9

Date Collected: 08/05/25 15:05 Date Received: 08/06/25 08:59

Sample Depth: 6-10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/06/25 21:00	08/07/25 03:54	1
Toluene	0.0168		0.00198		mg/Kg		08/06/25 21:00	08/07/25 03:54	1
Ethylbenzene	0.00963		0.00198		mg/Kg		08/06/25 21:00	08/07/25 03:54	1
m-Xylene & p-Xylene	0.0282		0.00396		mg/Kg		08/06/25 21:00	08/07/25 03:54	1
o-Xylene	0.00993		0.00198		mg/Kg		08/06/25 21:00	08/07/25 03:54	1
Xylenes, Total	0.0381		0.00396		mg/Kg		08/06/25 21:00	08/07/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/06/25 21:00	08/07/25 03:54	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/06/25 21:00	08/07/25 03:54	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0646		0.00396		mg/Kg			08/07/25 03:54	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/07/25 02:28	1
- Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		08/07/25 07:32	08/07/25 02:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		08/07/25 07:32	08/07/25 02:28	1
C10-C28)	40.0		40.0				00/07/05 07 00	00/07/05 00 00	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/25 07:32	08/07/25 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/07/25 07:32	08/07/25 02:28	1
o-Terphenyl	101		70 - 130				08/07/25 07:32	08/07/25 02:28	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

10.1

14.5

mg/Kg

Eurofins Carlsbad

08/07/25 03:24

Chloride

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8571-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8571-1	SW-9	109	94	
LCS 880-115979/1-A	Lab Control Sample	96	101	
LCSD 880-115979/2-A	Lab Control Sample Dup	105	106	
MB 880-115940/5-A	Method Blank	99	97	
MB 880-115979/5-A	Method Blank	96	91	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8571-1	SW-9	97	101	
LCS 880-116031/2-A	Lab Control Sample	121	122	
LCSD 880-116031/3-A	Lab Control Sample Dup	120	121	
MB 880-116031/1-A	Method Blank	108	121	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8571-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115940/5-A

Matrix: Solid Analysis Batch: 115927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115940

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 09:03	08/06/25 11:36	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	08/06/25 09:0	08/06/25 11:36	1
1,4-Difluorobenzene (Surr)	97	70 ₋ 130	08/06/25 09:0	03 08/06/25 11:36	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115979

Analysis Batch: 115927

Matrix: Solid

Lab Sample ID: MB 880-115979/5-A

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		08/06/25 11:26	08/06/25 22:34	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/06/25 11:26	08/06/25 22:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/06/25 11:26	08/06/25 22:34	1

Lab Sample ID: LCS 880-115979/1-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115979

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09652		mg/Kg		97	70 - 130	
Toluene	0.100	0.09198		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-115979/2-A

Matrix: Solid

Analysis Batch: 115927

Client Sample	ID: Lab	Control	Sample Dup

Prep Type: Total/NA

Prep Batch: 115979

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1007	mg/Kg		101	70 - 130	4	35

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8571-1 SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-115979/2-A **Matrix: Solid**

Analysis Batch: 115927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 115979**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09732		mg/Kg		97	70 - 130	6	35
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130	6	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-116031/1-A

Matrix: Solid

Analysis Batch: 115935

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116031

Dil Fac

MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/25 07:32	08/06/25 23:16
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/25 07:32	08/06/25 23:16
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/25 07:32	08/06/25 23:16

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/07/25 07:32	08/06/25 23:16	1
o-Terphenyl	121		70 - 130	08/07/25 07:32	08/06/25 23:16	1

Lab Sample ID: LCS 880-116031/2-A

Matrix: Solid

Analysis Batch: 115935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116031

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1038		mg/Kg		104	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1129		mg/Kg		113	70 - 130	
C10 C20)								

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	121	70 - 130
o-Terphenyl	122	70 - 130

Lab Sample ID: LCSD 880-116031/3-A

Released to Imaging: 9/30/2025 3:34:09 PM

Matrix: Solid

Analysis Batch: 115935

Client Sample	ID:	Lab (Control	Samp	le C)up
---------------	-----	-------	---------	------	------	-----

Prep Type: Total/NA

Prep Batch: 116031

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1030		mg/Kg	_	103	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1084		mg/Kg		108	70 - 130	4	20
C10-C28)									

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8571-1

SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-116031/3-A

Matrix: Solid

Analysis Batch: 115935

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116031

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 121 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116013/1-A

Matrix: Solid

Analysis Batch: 116027

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10.0 Chloride <10.0 U 08/06/25 23:50 mg/Kg

Lab Sample ID: LCS 880-116013/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Soluble

Analysis Batch: 116027

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.6 100 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-116013/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 116027

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.0 103 90 - 110 20 mg/Kg

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8571-1 SDG: Lea County, NM

GC VOA

Analysis Batch: 115927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8571-1	SW-9	Total/NA	Solid	8021B	115979
MB 880-115940/5-A	Method Blank	Total/NA	Solid	8021B	115940
MB 880-115979/5-A	Method Blank	Total/NA	Solid	8021B	115979
LCS 880-115979/1-A	Lab Control Sample	Total/NA	Solid	8021B	115979
LCSD 880-115979/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115979

Prep Batch: 115940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115940/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 115979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8571-1	SW-9	Total/NA	Solid	5035	
MB 880-115979/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115979/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115979/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8571-1	SW-9	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 115935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8571-1	SW-9	Total/NA	Solid	8015B NM	116031
MB 880-116031/1-A	Method Blank	Total/NA	Solid	8015B NM	116031
LCS 880-116031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116031
LCSD 880-116031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116031

Prep Batch: 116031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-8571-1	SW-9	Total/NA	Solid	8015NM Prep
MB 880-116031/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-116031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-116031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

Analysis Batch: 116049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8571-1	SW-9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116013

Lab Sample ID 890-8571-1	Client Sample ID SW-9	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-116013/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116013/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116013/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8571-1 Project/Site: Mulva SDG: Lea County, NM

HPLC/IC

Analysis Batch: 116027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8571-1	SW-9	Soluble	Solid	300.0	116013
MB 880-116013/1-A	Method Blank	Soluble	Solid	300.0	116013
LCS 880-116013/2-A	Lab Control Sample	Soluble	Solid	300.0	116013
LCSD 880-116013/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116013

Lab Chronicle

Client: Earth Systems Response and Restoration

Job ID: 890-8571-1 Project/Site: Mulva SDG: Lea County, NM

Client Sample ID: SW-9

Date Received: 08/06/25 08:59

Lab Sample ID: 890-8571-1 Date Collected: 08/05/25 15:05

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	115979	08/06/25 21:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115927	08/07/25 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116044	08/07/25 03:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			116049	08/07/25 02:28	SA	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115935	08/07/25 02:28	TKC	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116031	08/07/25 07:32	EL	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116013	08/06/25 14:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	116027	08/07/25 03:24	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8571-1 Project/Site: Mulva SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Mulva

Job ID: 890-8571-1 SDG: Lea County, NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 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

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Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8571-1

SDG: Lea County, NM

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-8571-1 SW-9 Solid 08/05/25 15:05 08/06/25 08:59 6-10

Relinquished by: (Signature)

Received by: (Signature)

0

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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

Total

200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al

g

votice: 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

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 representations. A minimum charge of \$8.00 will be applied to each project and a charge of \$8 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

eurofins

Xenco

Environment Testing

Phone:

832-541-7719 Carlsbad, NM, 88220

Email: gmoreno@earthsys.net

City, State ZIP:

Turn Around

✓ Rush

Mulva 210

City, State ZIP

Company Name: Project Manager:

Earth Systems R&R

Company Name: Bill to: (if different)

Earth Systems

1910 Resource Ct.

Gilbert Moreno

SAMPLE RECEIPT

Lemp Blank:

Yes No

Wet Ice:

Yes No

Cooler Custody Seals: Samples Received Intact:

Yes Yes No (Yes / No

No

Corrected Temperature:

emperature Reading:

G

(N/A

Thermometer ID: Correction Factor:

otal Containers: ample Custody Seals:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth (feet)

Comp Comp

Grab/

SW-9

ഗ

8.5.25

15:05

6-10

Sampler's Name:

Project Location: Project Number: Project Name:

Lea County, NM

Due Date: ☐ Routine

24 Rush TAT

Santiago Giron

TAT starts the day received by the lab, if received by 4:30pm

CC/WO#

13 14

Chain of Custody

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

Work Order No:

W Xenco.com Page Work Order Comments PRP Brownfields RRC Level III PST/UST TRRE ADAPT Other	Page o	www.xenco.com Page of
		☐ Superfu☐ Superfu☐ Level

Sp.								>	# of Cont				Pa	ıraı	nete	rs			Code	Pres.	
As Ba								×	TPH -N	IM											
a Be								×	Chloric	de-N	VI .									7	
В В	П							×	BTEX-	NM											
d Ca	Ħ								Hold												
Cr Cr Cr	H	+	1	+	П			×	24 Hr F	Rush									-	1	
5 9	H	+	+										1					*********	-	1	PZ
Fe	H	+	+	+	Н									10	e =	_			-	+	ANALYVIV AFFORD
PB N	H	+	+	+	H								-	000	on 8571 Chain of Custody				-	1	マスパ
ng M	\vdash	+	+	+	\vdash	+		-		-	14				71 Ch					-	COT
Mo		+	+	+	H	+		_			_				ain of					4	<u>u</u>
Z		4	_	-	\sqcup	4						<u> </u>			Custo					4	
Se		_			Ц										ody					-	
Ag																					
SiO ₂																					
Na S															1						
Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn											NaO	Zn A	Na ₂ S	Her	PC	₂ S0	CI:	000	lone	1	
Sn (nAF	Inc	Sam		H+Asc	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	PO4: HP	2S04: H2	CL: HC	ool: Cool	lone: NO		Tres
<							P250	dent	ple C		orbic	+NaO	laSO ₃	ABIS							ELAGI
n							nAPP2509160854	Incident Number	Sample Comments		Acid:	H: Zn				NaO	HNC	MeO		2	Preservative codes
						7	854	ber	ents		NaOH+Ascorbic Acid: SAPC					NaOH: Na	HNO3: HN	МеОН: Ме	ater: i		Sano
														L					120	5	
202	5 3:.	34:0	09 F	PM			54	er		age		7 (of	19		Na	ĭ	Me	DI Water H ₂ O		

Hg: 1631 / 245.1 / 7470 / 7471

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8571-1

SDG Number: Lea County, NM

Login Number: 8571 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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	
ls 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	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Carlsbad

Released to Imaging: 9/30/2025 3:34:09 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8571-1

SDG Number: Lea County, NM

List Source: Eurofins Midland

List Creation: 08/07/25 07:30 AM

Login Number: 8571 List Number: 2

Creator: Laing, Edmundo

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	

Released to Imaging: 9/30/2025 3:34:09 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/7/2025 7:59:24 AM

JOB DESCRIPTION

Mulva Lea County,NM

JOB NUMBER

890-8572-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Tel

Generated 8/7/2025 7:59:24 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 19 8/7/2025

Client: Earth Systems Response and Restoration Project/Site: Mulva

Laboratory Job ID: 890-8572-1 SDG: Lea County,NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

1

2

3

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8

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11

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration

Project/Site: Mulva SDG: Lea County,NM

Job ID: 890-8572-1

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

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Case Narrative

Client: Earth Systems Response and Restoration Job ID: 890-8572-1

Project: Mulva

Job ID: 890-8572-1 Eurofins Carlsbad

Job Narrative 890-8572-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/6/2025 9:55 AM. 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 -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: C-3 (890-8572-1).

GC VOA

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

Diesel Range Organics

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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Matrix: Solid

Lab Sample ID: 890-8572-1

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8572-1 Project/Site: Mulva SDG: Lea County,NM

Client Sample ID: C-3

Date Collected: 08/05/25 15:00 Date Received: 08/06/25 09:55

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/06/25 21:00	08/07/25 04:15	1
Toluene	0.00232		0.00198		mg/Kg		08/06/25 21:00	08/07/25 04:15	1
Ethylbenzene	0.00288		0.00198		mg/Kg		08/06/25 21:00	08/07/25 04:15	1
m-Xylene & p-Xylene	0.00834		0.00397		mg/Kg		08/06/25 21:00	08/07/25 04:15	1
o-Xylene	0.00425		0.00198		mg/Kg		08/06/25 21:00	08/07/25 04:15	1
Xylenes, Total	0.0126		0.00397		mg/Kg		08/06/25 21:00	08/07/25 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/06/25 21:00	08/07/25 04:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/06/25 21:00	08/07/25 04:15	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0178		0.00397		mg/Kg			08/07/25 04:15	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/07/25 02:44	Dil Fac
Analyte	Result 79.4	Qualifier	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 79.4 esel Range Orga	Qualifier	RL 50.0			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result 79.4 esel Range Orga	Qualifier nics (DRO) Qualifier	RL 50.0		mg/Kg	_ =		08/07/25 02:44	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 79.4 esel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC) RL		mg/Kg	_ =	Prepared	08/07/25 02:44 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result 79.4 esel Range Orga Result < 50.0	Qualifier unics (DRO) Qualifier U	(GC) RL 50.0		mg/Kg Unit mg/Kg	_ =	Prepared 08/07/25 07:32	08/07/25 02:44 Analyzed 08/07/25 02:44	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 79.4 esel Range Orga Result < 50.0 79.4	Qualifier Inics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/07/25 07:32 08/07/25 07:32	08/07/25 02:44 Analyzed 08/07/25 02:44 08/07/25 02:44	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 79.4 esel Range Orga Result < 50.0 79.4 < 50.0	Qualifier Inics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/07/25 07:32 08/07/25 07:32	08/07/25 02:44 Analyzed 08/07/25 02:44 08/07/25 02:44 08/07/25 02:44	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 79.4	Qualifier Inics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/07/25 07:32 08/07/25 07:32 08/07/25 07:32 Prepared	08/07/25 02:44 Analyzed 08/07/25 02:44 08/07/25 02:44 08/07/25 02:44 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 79.4	Qualifier Conics (DRO) Qualifier U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/07/25 07:32 08/07/25 07:32 08/07/25 07:32 Prepared 08/07/25 07:32	08/07/25 02:44 Analyzed 08/07/25 02:44 08/07/25 02:44 08/07/25 02:44 Analyzed 08/07/25 02:44	1

10.1

mg/Kg

08/07/25 03:32

246

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Chloride

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8572-1 Project/Site: Mulva SDG: Lea County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8572-1	C-3	107	92	
LCS 880-115979/1-A	Lab Control Sample	96	101	
LCSD 880-115979/2-A	Lab Control Sample Dup	105	106	
MB 880-115940/5-A	Method Blank	99	97	
MB 880-115979/5-A	Method Blank	96	91	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8572-1	C-3	108	118	
LCS 880-116031/2-A	Lab Control Sample	121	122	
LCSD 880-116031/3-A	Lab Control Sample Dup	120	121	
MB 880-116031/1-A	Method Blank	108	121	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-8572-1 Project/Site: Mulva SDG: Lea County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115940/5-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Method Blank

Prep Batch: 115940

Prep Type: Total/NA

	INID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 09:03	08/06/25 11:36	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 09:03	08/06/25 11:36	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 09:03	08/06/25 11:36	
	440	440							

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	08/06/25 09:03	08/06/25 11:36	1
1,4-Difluorobenzene (Surr)	97	70 - 130	08/06/25 09:03	08/06/25 11:36	1

Lab Sample ID: MB 880-115979/5-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115979

	IND	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	•
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 11:26	08/06/25 22:34	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 11:26	08/06/25 22:34	•
Xvlenes. Total	< 0.00400	U	0.00400		ma/Ka		08/06/25 11:26	08/06/25 22:34	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/06/25 11:26	08/06/25 22:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/06/25 11:26	08/06/25 22:34	1

Lab Sample ID: LCS 880-115979/1-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 115979

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09652		mg/Kg		97	70 - 130	
Toluene	0.100	0.09198		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-115979/2-A

Matrix: Solid

Analysis Batch: 115927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115979

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	4	35

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Page 8 of 19

1

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8572-1 SDG: Lea County,NM

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

Lab Sample ID: LCSD 880-115979/2-A **Matrix: Solid**

Analysis Batch: 115927

Client Sample	ID:	Lab	Control	Sample	Dup
---------------	-----	-----	---------	--------	-----

Prep Type: Total/NA **Prep Batch: 115979**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09732		mg/Kg		97	70 - 130	6	35
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130	6	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-116031/1-A

Matrix: Solid

Analysis Batch: 115935

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116031

	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/k	(g	08/07/25 07:32	08/06/25 23:16	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/k	(g	08/07/25 07:32	08/06/25 23:16	1
C10-C28) Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/k	ζg	08/07/25 07:32	08/06/25 23:16	1
Ι`	Oil Natige Organics (Over 626-636)	On Narige Organics (Over 020-030)	Oil Nailge Organics (Over 020-030)	Oil Marige Organics (Over 020-030)	Oil Nailge Organics (Over C20-C30)	Transe Organics (Over 626-630)	Triange Organics (Over 628-630)	50.1 Natige Organics (Over 020-030)

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/07/25 07:32	08/06/25 23:16	1
o-Terphenyl	121		70 - 130	08/07/25 07:32	08/06/25 23:16	1

Lab Sample ID: LCS 880-116031/2-A

Matrix: Solid

Analysis Batch: 115935

Prep Type: Total/NA

Prep Batch: 116031

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1038		mg/Kg		104	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1129		mg/Kg		113	70 - 130	
C40 C20)								

C10-C28)

LCS LCS

l	Surrogate	%Recovery	Qualifier	Limits
	1-Chlorooctane	121		70 - 130
l	o-Terphenyl	122		70 - 130

Lab Sample ID: LCSD 880-116031/3-A

Matrix: Solid

Analysis Batch: 115935

Client Sample	ID:	Lab (Control	Samp	le C)up
---------------	-----	-------	---------	------	------	-----

Prep Type: Total/NA

Prep Batch: 116031

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1030		mg/Kg		103	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1084		mg/Kg		108	70 - 130	4	20
C10-C28)									

QC Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8572-1 SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-116031/3-A

Matrix: Solid Analysis Batch: 115935 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116031

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 121 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116013/1-A

Matrix: Solid

Analysis Batch: 116027

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10.0 Chloride <10.0 U 08/06/25 23:50 mg/Kg

Lab Sample ID: LCS 880-116013/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 116027

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.6 100 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-116013/3-A

Matrix: Solid

Analysis Batch: 116027

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.0 103 90 - 110 20 mg/Kg

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8572-1 SDG: Lea County,NM

GC VOA

Analysis Batch: 115927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8572-1	C-3	Total/NA	Solid	8021B	115979
MB 880-115940/5-A	Method Blank	Total/NA	Solid	8021B	115940
MB 880-115979/5-A	Method Blank	Total/NA	Solid	8021B	115979
LCS 880-115979/1-A	Lab Control Sample	Total/NA	Solid	8021B	115979
LCSD 880-115979/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115979

Prep Batch: 115940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115940/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 115979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8572-1	C-3	Total/NA	Solid	5035	
MB 880-115979/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115979/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115979/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8572-1	C-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 115935

Lab Sample ID 890-8572-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 116031
MB 880-116031/1-A	Method Blank	Total/NA	Solid	8015B NM	116031
LCS 880-116031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116031
LCSD 880-116031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116031

Prep Batch: 116031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8572-1	C-3	Total/NA	Solid	8015NM Prep	
MB 880-116031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8572-1	C-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116013

Lab Sample ID 890-8572-1	Client Sample ID	Prep Type Soluble	Matrix Solid	Method Prep Batch DI Leach
MB 880-116013/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-116013/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-116013/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8572-1 Project/Site: Mulva SDG: Lea County,NM

HPLC/IC

Analysis Batch: 116027

Lab Sample	D Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8572-1	C-3	Soluble	Solid	300.0	116013
MB 880-1160	13/1-A Method Blank	Soluble	Solid	300.0	116013
LCS 880-116	013/2-A Lab Control Sample	Soluble	Solid	300.0	116013
LCSD 880-11	6013/3-A Lab Control Sample Dup	Soluble	Solid	300.0	116013

Lab Chronicle

Client: Earth Systems Response and Restoration

Job ID: 890-8572-1 Project/Site: Mulva SDG: Lea County,NM

Client Sample ID: C-3

Lab Sample ID: 890-8572-1

Matrix: Solid

Date Collected: 08/05/25 15:00 Date Received: 08/06/25 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	115979	08/06/25 21:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115927	08/07/25 04:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116045	08/07/25 04:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			116050	08/07/25 02:44	SA	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115935	08/07/25 02:44	TKC	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116031	08/07/25 07:32	EL	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116013	08/06/25 14:50	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	116027	08/07/25 03:32	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-8572-1 Project/Site: Mulva SDG: Lea County,NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Mulva

Job ID: 890-8572-1 SDG: Lea County,NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 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

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Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Mulva

Job ID: 890-8572-1

SDG: Lea County,NM

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-8572-1 Solid 08/05/25 15:00 08/06/25 09:55

service. Eurofins Xenco will be I Eurofins Xenco. A minimum cha otice: Signature of this document

Relinquished by: (Signa

Circle Method(s) and Meta

Total 200.7 / 6010

eurofins

Xenco

Environment Testing

Project Location: Sampler's Name:

Project Number: Project Name: Phone:

City, State ZIP:

Company Name: Project Manager:

Earth Systems R&R Gilbert Moreno

Company Name: Bill to: (if different)

Earth Systems

Address:

1910 Resource Ct.

Address:

SAMPLE RECEIPT

CC/WO#:

Sample Custody Seals: Cooler Custody Seals: Samples Received Intact:

otal Containers:

Sample Identification

CS-3

13 14

Chain of Custody

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

NM (575) 988-3199	
	www.xenco.com Page of
	Work Order Comments
	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
	Atata of Urojoot

teport legiver	eliverables: EST of Custody	eliverables: EDD EST Tof Custody	eliverables: EDD	rring: Level II	Level III
ANALYSIS REQUIRED	ANALYSIS REQUIREMENTS REQUIREME	ANALYSIS REQUIREMENTS REQUIREME	ANALYSIS REQUIREMENTS REQUIREME	ANALYSIS REQUEST ANALYSIS REQUEST	ANALYSIS REQUEST ANALYSIS REQUEST
ANALYSIS REQUIRED IN THE PROPERTY OF THE PROPE	Hold 24 Hr Rush 890-8572 Cha	Hold 24 Hr Rush 890-8572 Cha	Hold 24 Hr Rush 890-8572 Cha	Reporting: Level II	Reporting: Level II
Hold 24 Hr Rush 890-8572 Cha	Reporting: Level II	Reporting: Level II			
× 24 Hr Rush ANAL YSIS REQ	Reporting: Level II	Reporting: Level II			
ANALYSIS REQUIRED TO THE PROPERTY OF THE PROPE	ANALYSIS REQUIRED TO THE PROPERTY OF THE PROPE	ANALYSIS REQUIRED TO THE PROPERTY OF THE PROPE	ANALYSIS REQUIRED TO THE PROPERTY OF THE PROPE	Reporting: Level II	Reporting: Level II
VALYSIS REQUEST 890-8572 Chain of C	Reporting: Lev Deliverables: VALYSIS REQUEST 890-8572 Chain of Custody	Reporting: Level II □L Deliverables: EDD □ VALYSIS REQUEST 890-8572 Chain of Custody	Reporting: Level II Level III Deliverables: EDD	rring: Level III	rring: Level III
Report Deliver	Reporting: Lev Deliverables: 1 S REQUEST 572 Chain of Custody	Reporting: Level II □L Deliverables: EDD □ S REQUEST 572 Chain of Custody	Reporting: Level III Level III Deliverables: EDD	rrting: Level II	rrting: Level II
Deliver Destruction of C	Reporting: Lev Deliverables: UEST in of Custody	Reporting: Level II □L Deliverables: EDD □ UEST ain of Custody	Reporting: Level III Deliverables: EDD	rrting: Level II	rrting: Level II
	ables: I	ables: EDD []	ables: EDD	EDD ADaPT	EDD ADaPT

Work Order No:

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8572-1

SDG Number: Lea County,NM

Login Number: 8572 List Source: Eurofins Carlsbad

List Number: 1

<6mm (1/4").

Creator: Bruns, Shannon

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	N/A	

-

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8572-1

SDG Number: Lea County,NM

List Source: Eurofins Midland

List Creation: 08/07/25 07:30 AM

Login Number: 8572 List Number: 2

Creator: Laing, Edmundo

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	
ls 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 https://example.com/ .	N/A	

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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 510783

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	510783
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509160854
Incident Name	NAPP2509160854 MULVA @ N-27-24S-35E 832S 2575W
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MULVA
Date Release Discovered	03/21/2025
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Corrosion Pipeline (Any) Crude Oil Released: 19 BBL Recovered: 0 BBL Lost: 19 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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QUESTIONS, Page 2

Action 510783

QUESTIONS (continu
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QUESTI	ions (continued)
Operator:	OGRID:
SCM Operations, LLC 5775 N Sam Houston Pkwy W	330368 Action Number:
Houston, TX 77086	510783
	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	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	party 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	Title
environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Travis Ray Title: Senior Environmental Specialist Email: travis.ray@scmid.com Date: 09/30/2025

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QUESTIONS, Page 3

Action 510783

QUESTIONS (continued)

 Operator:
 OGRID:
 330368

 5775 N Sam Houston Pkwy W
 Action Number:
 510783

 Houston, TX 77086
 Action Type:
 [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	Attached Document	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

to later than 90 days after the release discovery date. ave been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
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ort must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
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significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 510783

QUESTIONS (continued)

ı	Operator:	OGRID:
ı	SCM Operations, LLC	330368
ı	5775 N Sam Houston Pkwy W	Action Number:
ı	Houston, TX 77086	510783
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fJEG1635837366 OWL LANDFILL JAL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Travis Ray
Title: Senior Environmental Specialist
Email: travis.ray@scmid.com
Date: 09/30/2025

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

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QUESTIONS, Page 5

Action 510783

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	510783
	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 510783

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	510783
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	491495
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/05/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

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	1600	
What was the total volume (cubic yards) remediated	720	
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	1600	
What was the total volume (in cubic yards) reclaimed	720	
Summarize any additional remediation activities not included by answers (above)	No additional remediation activities required. Lab analytical results for all final confirmation sampling meet Site Closure Criteria and reclamation standards. Area will be reclaimed when facility is deconstructed.	

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: Travis Ray
Title: Senior Environmental Specialist
Email: travis.ray@scmid.com
Date: 09/30/2025

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QUESTIONS, Page 7

Action 510783

QUESTIONS (continued)

Operator:	OGRID:
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5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	510783
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 510783

CONDITIONS

Operator:	OGRID:
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5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	510783
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created B		Condition Date
scwells	None	9/30/2025