



February 3, 2026

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

RE: **MAL-11-EXT - Closure Request Report Addendum**
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico
ESRR Project No. 6932

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Kinetik Midstream (Kinetik), presents the following Closure Request Report Addendum (CRR) to document No Further Action (NFA) is warranted for the inadvertent release of produced water at the MAL-11-EXT (Site). Based on the recent soil sampling event and previously completed remedial actions documented in the previously submitted Closure Request Report (CRR), Kinetik is requesting NFA at the Site.

This CRR presents the additional data following the rejection of the previously submitted CRR for Incident Number nAPP2521144311. The CRR, submitted on December 19, 2026, was rejected by the New Mexico Oil Conservation Division (NMOCD) on January 12, 2026, for the following reason:

- *"The Remediation Closure Report is Denied. Any area designated as a "release area" or "area of concern" will need to have 5-point composite confirmation soil samples conducted within the entire boundary of that area. Collect 5-point confirmation samples every 200 ft² throughout the entire release area and not just at delineation sample point locations that show contaminants over closure criteria standards. The area in-between the two excavation extents consisting of HA-4 and HA-5 will need to have 5-point confirmation samples conducted every 200 ft²."*

On January 14, 2026, ESRR conducted additional soil sampling activities to address the NMOCD's reason for rejection. Six confirmation soil samples (CS-18 through CS-23) were collected in between the two previously excavated extents, directly near previously collected delineation soil samples HA-4 and HA-5. The confirmation soil samples were comprised of five-point composite soil samples at a sampling frequency of 200 square feet. The confirmation soil samples were placed directly into lab-provided pre-cleaned jars, packed with minimal void space, labeled, placed on ice, and transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of total petroleum hydrocarbons, benzene, and BTEX. Laboratory analytical results for the final confirmation soil samples (CS-18 through CS-23) were compliant with Site Closure Criteria and/or the reclamation standard. Laboratory analytical results are summarized in **Table 1**, included in the attachments. The locations of the final confirmation soil samples are represented in **Figure 2. Photographic Documentation** of activities is attached.

Based on the recent laboratory analytical results in addition to the completed remedial actions documented in the previously submitted CRR, Kinetik believes these actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment, and

Page 1 of 2

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



groundwater. As such, NFA appears warranted at this time, and Kinetik respectfully requests Closure of this CRRA associated with Incident Number nAPP2521144311.

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

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

A handwritten signature in black ink that reads "Gilbert Moreno".

Gilbert Moreno
Carlsbad Operations Manager/ Project Geologist

A handwritten signature in black ink that reads "Kris Williams".

Kris Williams, CHMM, REM
Principal

cc: Ivan Jimenez, Kinetik Midstream
Sebastian Orozco, Kinetik Midstream
Bureau of Land Management

Attachments:

- Figure 1 - Site Map
- Figure 1A - Groundwater
- Figure 1B - Karst Potential
- Figure 2 - Confirmation Soil Sample Locations
- Referenced Well Record
- Photographic Documentation
- Table 1 - Soil Sample Analytical Results
- NMOCD Email Documentation & Correspondence
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports
- Archived Report

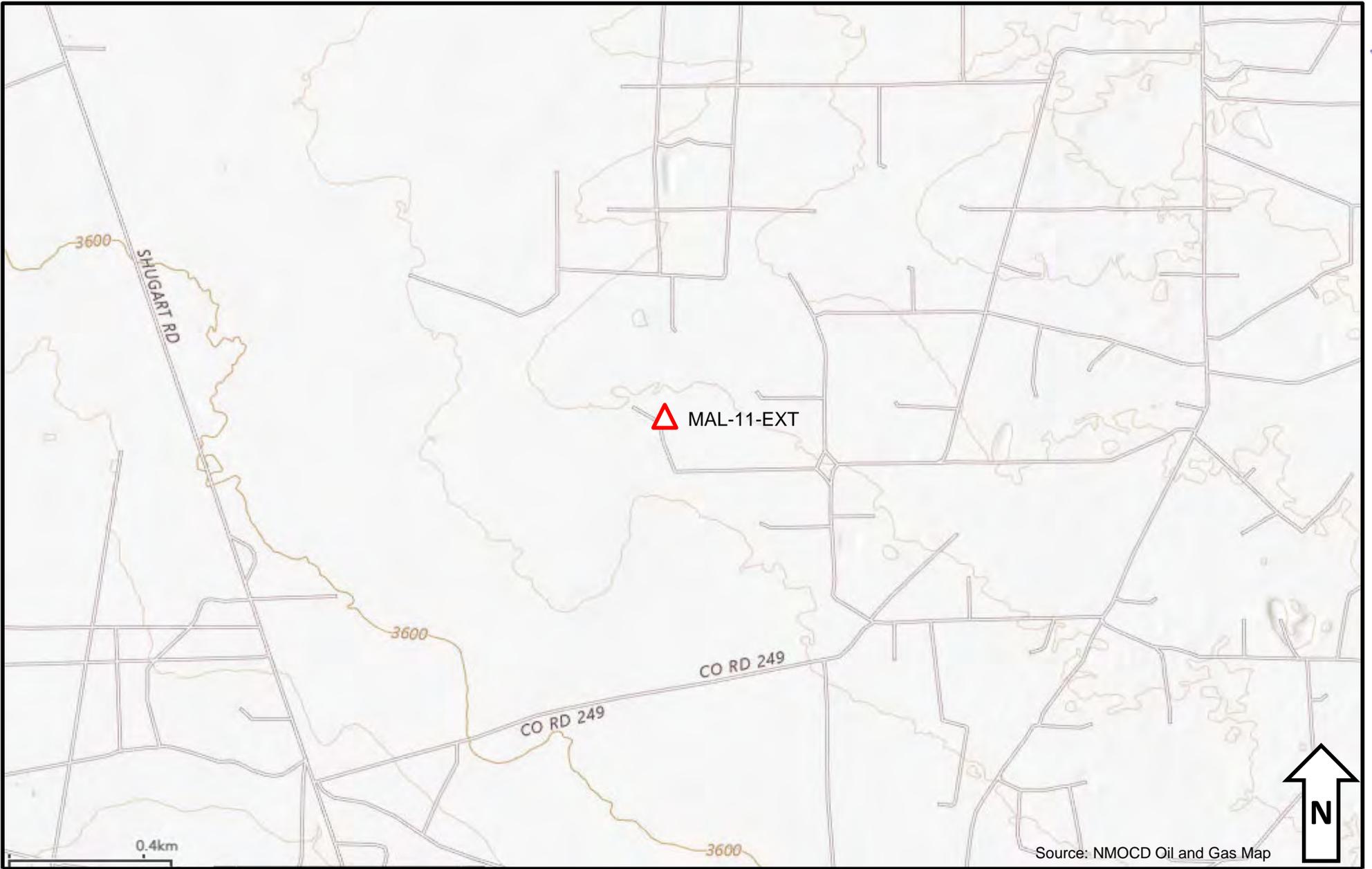


Figure 1 – Site Map

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico



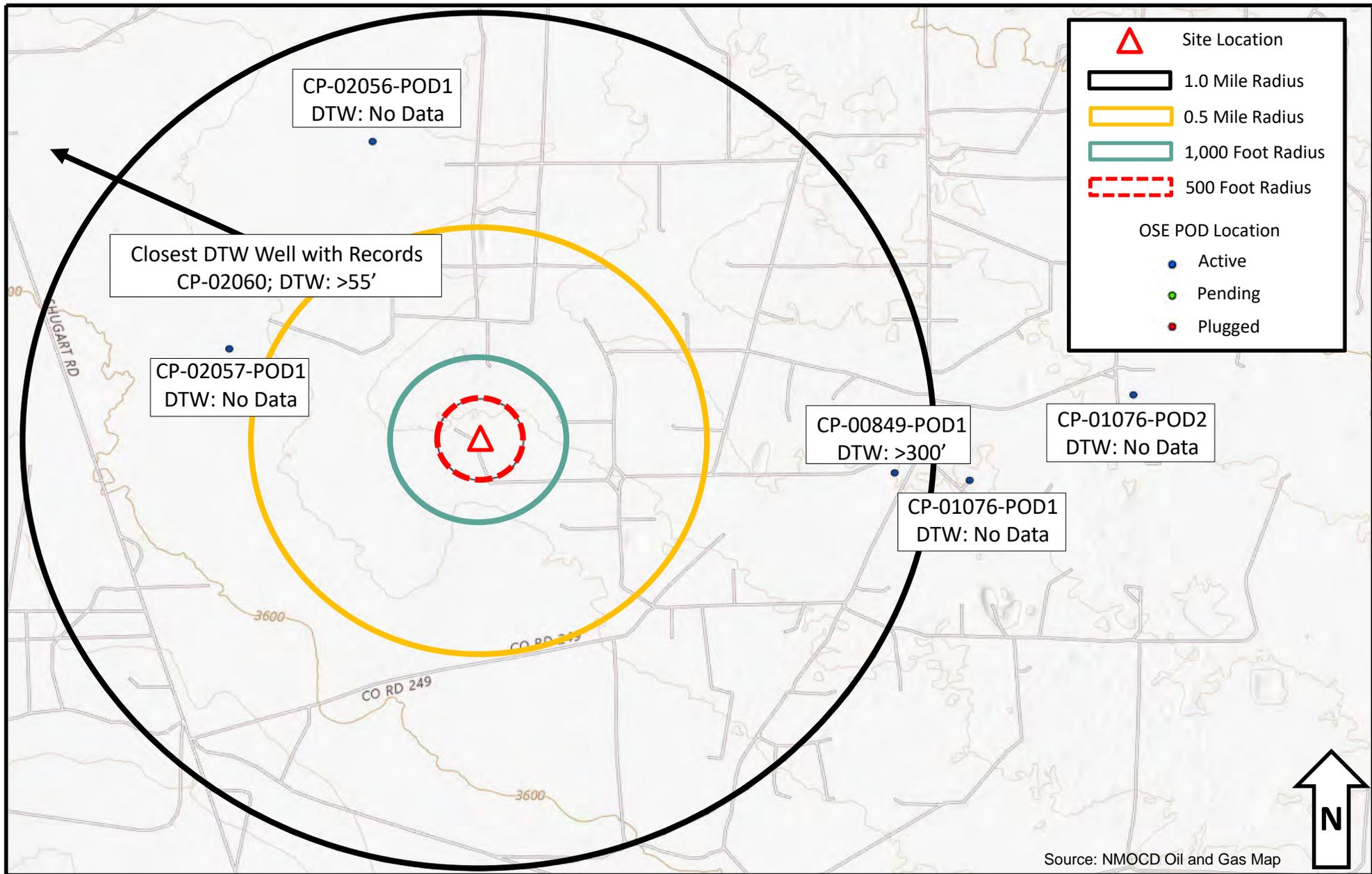


Figure 1A – Groundwater

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico





Figure 1B – Karst Potential

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico





Figure 2 – Confirmation Soil Sample Locations

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico





Table 1
SOIL SAMPLE ANALYTICAL RESULTS
MAL-11-EXT
Eddy County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
COnfirmation Soil Samples - nAPP2521144311									
CS - 18	1/14/2026	0-0.5	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0
CS - 19	1/14/2026	0-0.5	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0
CS - 20	1/14/2026	0-0.5	<0.0250	<0.1250	<20.0	98.9	<50.0	98.9	25.9
CS - 21	1/14/2026	0-0.5	<0.0250	<0.1250	<20.0	<95.0	<50.0	<95.0	23.9
CS - 22	1/14/2026	0-0.5	<0.0250	<0.1250	<20.0	51.6	<50.0	51.6	<20.0
CS - 23	1/14/2026	0-0.5	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) CP-2060			
	WELL OWNER NAME(S) Devon Energy Production				PHONE (OPTIONAL) 575-748-0167			
	WELL OWNER MAILING ADDRESS 6488 Seven Rivers Hwy.				CITY Artesia	STATE ZIP NM 88210		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 42	SECONDS 56.38	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE 103	53	43.08	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE UL-K S-29 T-18S R-31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 5/14/25	DRILLING ENDED 5/14/25	DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Dry Hole			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 5/23/24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				No Casing Left in Hole				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

OSE DII ROSWELL, NM
17 JUN '25 PM 1:28

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 09/22/2022)			
FILE NO.	CP-02060	POD NO.	1	TRN NO.	781734		
LOCATION	145.31E.29.323			WELL TAG ID NO.		PAGE 1 OF 2	

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 781734
File Nbr: CP 02060
Well File Nbr: CP 02060 POD1

Jul. 17, 2025

JIM RALEY
DEVON ENERGY PRODUCTION
6488 SEVEN RIVERS HIGHWAY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 03/28/2025.

The Well Record was received in this office on 06/17/2025, stating that it had been completed on 05/14/2025, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/28/2026.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

drywell

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 1: Northeastern view of previously excavated area. 1/14/2026



PHOTO 2: Northwestern view of previously excavated area. 1/14/2026

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 542099

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 542099
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ FAPP2123229442
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,200
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/14/2026
Time sampling will commence	09:30 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	32.702420, -103.863173

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 542099

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 542099
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
ijimenez	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.	1/12/2026
ijimenez	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.	1/12/2026

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E601096

Job Number: 24064-0001

Received: 1/15/2026

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/21/26

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 1/21/26



Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E601096
Date Received: 1/15/2026 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/15/2026 8:00:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 01/21/26 13:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-18 0-0.5	E601096-01A	Soil	01/14/26	01/15/26	Glass Jar, 2 oz.
CS-19 0-0.5	E601096-02A	Soil	01/14/26	01/15/26	Glass Jar, 2 oz.
CS-20 0-0.5	E601096-03A	Soil	01/14/26	01/15/26	Glass Jar, 2 oz.
CS-21 0-0.5	E601096-04A	Soil	01/14/26	01/15/26	Glass Jar, 2 oz.
CS-22 0-0.5	E601096-05A	Soil	01/14/26	01/15/26	Glass Jar, 2 oz.
CS-23 0-0.5	E601096-06A	Soil	01/14/26	01/15/26	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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CS-18 0-0.5

E601096-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Benzene	ND	0.0250	1	01/15/26	01/16/26	
Ethylbenzene	ND	0.0250	1	01/15/26	01/16/26	
Toluene	ND	0.0250	1	01/15/26	01/16/26	
o-Xylene	ND	0.0250	1	01/15/26	01/16/26	
p,m-Xylene	ND	0.0500	1	01/15/26	01/16/26	
Total Xylenes	ND	0.0250	1	01/15/26	01/16/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/26	01/16/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2603114
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/26	01/15/26	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/26	01/15/26	
<i>Surrogate: n-Nonane</i>						
		92.0 %	61-141	01/15/26	01/15/26	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2603103
Chloride	ND	20.0	1	01/15/26	01/15/26	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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CS-19 0-0.5

E601096-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Benzene	ND	0.0250	1	01/15/26	01/16/26	
Ethylbenzene	ND	0.0250	1	01/15/26	01/16/26	
Toluene	ND	0.0250	1	01/15/26	01/16/26	
o-Xylene	ND	0.0250	1	01/15/26	01/16/26	
p,m-Xylene	ND	0.0500	1	01/15/26	01/16/26	
Total Xylenes	ND	0.0250	1	01/15/26	01/16/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/26	01/16/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2603114
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/26	01/15/26	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/26	01/15/26	
<i>Surrogate: n-Nonane</i>		95.7 %	61-141	01/15/26	01/15/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2603103
Chloride	ND	20.0	1	01/15/26	01/15/26	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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CS-20 0-0.5

E601096-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Benzene	ND	0.0250	1	01/15/26	01/16/26	
Ethylbenzene	ND	0.0250	1	01/15/26	01/16/26	
Toluene	ND	0.0250	1	01/15/26	01/16/26	
o-Xylene	ND	0.0250	1	01/15/26	01/16/26	
p,m-Xylene	ND	0.0500	1	01/15/26	01/16/26	
Total Xylenes	ND	0.0250	1	01/15/26	01/16/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/26	01/16/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2603114
Diesel Range Organics (C10-C28)	98.9	25.0	1	01/15/26	01/15/26	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/26	01/15/26	
<i>Surrogate: n-Nonane</i>		94.8 %	61-141	01/15/26	01/15/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2603103
Chloride	25.9	20.0	1	01/15/26	01/15/26	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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CS-21 0-0.5

E601096-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Benzene	ND	0.0250	1	01/15/26	01/18/26	
Ethylbenzene	ND	0.0250	1	01/15/26	01/18/26	
Toluene	ND	0.0250	1	01/15/26	01/18/26	
o-Xylene	ND	0.0250	1	01/15/26	01/18/26	
p,m-Xylene	ND	0.0500	1	01/15/26	01/18/26	
Total Xylenes	ND	0.0250	1	01/15/26	01/18/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		132 %	70-130	01/15/26	01/18/26	S3
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/26	01/18/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	01/15/26	01/18/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2603114
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/26	01/15/26	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/26	01/15/26	
<i>Surrogate: n-Nonane</i>		99.1 %	61-141	01/15/26	01/15/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2603103
Chloride	23.9	20.0	1	01/15/26	01/15/26	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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CS-22 0-0.5

E601096-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Benzene	ND	0.0250	1	01/15/26	01/16/26	
Ethylbenzene	ND	0.0250	1	01/15/26	01/16/26	
Toluene	ND	0.0250	1	01/15/26	01/16/26	
o-Xylene	ND	0.0250	1	01/15/26	01/16/26	
p,m-Xylene	ND	0.0500	1	01/15/26	01/16/26	
Total Xylenes	ND	0.0250	1	01/15/26	01/16/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/26	01/16/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2603114
Diesel Range Organics (C10-C28)	51.6	25.0	1	01/15/26	01/15/26	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/26	01/15/26	
<i>Surrogate: n-Nonane</i>		98.0 %	61-141	01/15/26	01/15/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2603103
Chloride	ND	20.0	1	01/15/26	01/15/26	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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CS-23 0-0.5

E601096-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Benzene	ND	0.0250	1	01/15/26	01/16/26	
Ethylbenzene	ND	0.0250	1	01/15/26	01/16/26	
Toluene	ND	0.0250	1	01/15/26	01/16/26	
o-Xylene	ND	0.0250	1	01/15/26	01/16/26	
p,m-Xylene	ND	0.0500	1	01/15/26	01/16/26	
Total Xylenes	ND	0.0250	1	01/15/26	01/16/26	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2603100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/15/26	01/16/26	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	01/15/26	01/16/26	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2603114
Diesel Range Organics (C10-C28)	ND	25.0	1	01/15/26	01/15/26	
Oil Range Organics (C28-C36)	ND	50.0	1	01/15/26	01/15/26	
<i>Surrogate: n-Nonane</i>		97.9 %	61-141	01/15/26	01/15/26	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2603103
Chloride	ND	20.0	1	01/15/26	01/15/26	



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2603100-BLK1)

Prepared: 01/15/26 Analyzed: 01/18/26

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	10.3		8.00		129	70-130			

LCS (2603100-BS1)

Prepared: 01/15/26 Analyzed: 01/18/26

Benzene	4.31	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.0	70-130			
Toluene	4.28	0.0250	5.00		85.6	70-130			
o-Xylene	4.29	0.0250	5.00		85.8	70-130			
p,m-Xylene	8.55	0.0500	10.0		85.5	70-130			
Total Xylenes	12.8	0.0250	15.0		85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	10.2		8.00		127	70-130			

Matrix Spike (2603100-MS1)

Source: E601096-04

Prepared: 01/15/26 Analyzed: 01/18/26

Benzene	4.31	0.0250	5.00	ND	86.1	70-130			
Ethylbenzene	4.19	0.0250	5.00	ND	83.9	70-130			
Toluene	4.28	0.0250	5.00	ND	85.5	70-130			
o-Xylene	4.28	0.0250	5.00	ND	85.7	70-130			
p,m-Xylene	8.56	0.0500	10.0	ND	85.6	70-130			
Total Xylenes	12.8	0.0250	15.0	ND	85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	10.3		8.00		129	70-130			

Matrix Spike Dup (2603100-MSD1)

Source: E601096-04

Prepared: 01/15/26 Analyzed: 01/18/26

Benzene	4.28	0.0250	5.00	ND	85.6	70-130	0.632	27	
Ethylbenzene	4.18	0.0250	5.00	ND	83.6	70-130	0.343	26	
Toluene	4.24	0.0250	5.00	ND	84.9	70-130	0.769	20	
o-Xylene	4.28	0.0250	5.00	ND	85.5	70-130	0.178	25	
p,m-Xylene	8.52	0.0500	10.0	ND	85.2	70-130	0.471	23	
Total Xylenes	12.8	0.0250	15.0	ND	85.3	70-130	0.373	26	
Surrogate: 4-Bromochlorobenzene-PID	10.4		8.00		130	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2603100-BLK1)

Prepared: 01/15/26 Analyzed: 01/18/26

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		8.00		102	70-130			

LCS (2603100-BS2)

Prepared: 01/15/26 Analyzed: 01/18/26

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130			

Matrix Spike (2603100-MS2)

Source: E601096-04

Prepared: 01/15/26 Analyzed: 01/18/26

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.24		8.00		103	70-130			

Matrix Spike Dup (2603100-MSD2)

Source: E601096-04

Prepared: 01/15/26 Analyzed: 01/18/26

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	5.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		8.00		103	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2603114-BLK1)

Prepared: 01/15/26 Analyzed: 01/15/26

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.8	61-141			

LCS (2603114-BS1)

Prepared: 01/15/26 Analyzed: 01/15/26

Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: <i>n</i> -Nonane	46.7		50.0		93.4	61-141			

Matrix Spike (2603114-MS1)

Source: E601097-01

Prepared: 01/15/26 Analyzed: 01/15/26

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	56-156			
Surrogate: <i>n</i> -Nonane	45.6		50.0		91.2	61-141			

Matrix Spike Dup (2603114-MSD1)

Source: E601097-01

Prepared: 01/15/26 Analyzed: 01/15/26

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156	8.11	20	
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.2	61-141			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 1/21/2026 1:24:58PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2603103-BLK1)

Prepared: 01/15/26 Analyzed: 01/15/26

Chloride	ND	20.0							
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LCS (2603103-BS1)

Prepared: 01/15/26 Analyzed: 01/15/26

Chloride	252	20.0	250		101	90-110			
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Matrix Spike (2603103-MS1)

Source: E601096-04

Prepared: 01/15/26 Analyzed: 01/15/26

Chloride	277	20.0	250	23.9	101	80-120			
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Matrix Spike Dup (2603103-MSD1)

Source: E601096-04

Prepared: 01/15/26 Analyzed: 01/15/26

Chloride	277	20.0	250	23.9	101	80-120	0.0989	20	
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QC Summary Report Comment:

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



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/21/26 13:24

S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Released to Imaging: 2/4/2026 9:56:06 AM

Received by OCD: 2/3/2026 11:38:33 AM

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E10010910		24064.0001					X	X					
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																	
Address: 1910 Resource Ct				Phone: 832-541-7719																	
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net																	
Phone: 832-541-7719				Work for: Kinetik Midstream																	
Email: gmoreno@earthsys.net, sgron@earthsys.net																					
Sample Information										Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Rush-24 HR TAT	Grab (G)/Comp ©	SDWA	CWA	RCRA	
9:30	1/14/2026	S	1	CS - 18		1		0-0.5				X					C	2.8			Incident #:
9:35	1/14/2026	S	1	CS - 19		2		0-0.5				X					C	4.3			nAPP2521144311
9:40	1/14/2026	S	1	CS - 20		3		0-0.5				X					C	1.7			
9:45	1/14/2026	S	1	CS - 21		4		0-0.5				X					C	1.6			
9:50	1/14/2026	S	1	CS - 22		5		0-0.5				X					C	2.8			
9:55	1/14/2026	S	1	CS - 23		6		0-0.5				X					C	2.8			
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: SG																					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days. Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N Lab Use Only T1 _____ T2 _____ T3 _____ AVG Temp °C _____															
<i>[Signature]</i>	1/14/26	11:30	Michelle Gonzales	1-14-26	1130																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Michelle Gonzales	1-14-26	1445	Marissa Gonzales	1-14-26	1445																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Marissa Gonzales	1-14-26	1920	Johny [Signature]	1-14-26	1920																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
Johny [Signature]	1-14-26	2315	Caitlynn [Signature]	1-15-26	800																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____							Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

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Envirotech Analytical Laboratory

Printed: 1/15/2026 10:30:48AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems	Date Received: 01/15/26 08:00	Work Order ID: E601096
Phone: 832-541-7719	Date Logged In: 01/14/26 15:35	Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net	Due Date: 01/21/26 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

L-CM
R-NV

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

Date



envirotech Inc.



December 19, 2025

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

RE: **MAL-11-EXT - Closure Request Report**
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico
ESRR Project No. 6932

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Kinetik Midstream (Kinetik), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of produced water at the MAL-11-EXT (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Kinetik is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit L, Section 34, Township 18 South, Range 31 East, in Eddy County, New Mexico (32.702382°, -103.863279°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (**Figure 1**).

On July 30, 2025, a corroded subsurface pipeline leaked, causing the release of 10 barrels (bbls) of produced water onto a Kinetik right-of-way and adjacent native soils. A vacuum truck was reported by Kinetik to have recovered the 10 bbls of fluids. Kinetik provided notice to the New Mexico Oil Conservation Division (NMOCD) by Notification of Release (NOR) and a Corrective Action Form C-141 (Form C-141) on July 30, 2025, and was subsequently assigned Incident Number nAPP2521144311. ESRR conducted initial site assessment activities and mapped the observed release footprint on July 31, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**).

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

MAL-11-EXT - Closure Request Report
 Incident Number: nAPP2521144311
 GPS: 32.702382°, -103.863279°



- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1 and 5 miles of any wetland;
- Greater than 5 miles of any subsurface mine;
- Between 1 and 5 miles of any unstable area (non-karst); and
- Between 1 and 5 miles of a 100-year floodplain.

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

Based on the results from the desktop review, no depth to water well is within ½ mile with logged data no greater than 25 years old. The following Closure Criteria was applied:

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

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

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

Delineation Activities

On August 6 and 7, 2025, ESRR conducted initial delineation activities to assess the presence or absence of soil impacts associated with the AOC. Eleven delineation boreholes (HA-1 through HA-11) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of one soil sample was collected from each delineation borehole, representing the highest observed field screening concentrations and/or 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.

On September 3, 2025, ESRR conducted additional delineation activities, advancing delineation soil sample locations (HA-1 through HA-3, HA-6, and HA-7) via mechanical equipment. The delineation soil samples were field screened and handled as previously described. The delineation soil samples were transported under strict chain-of-custody procedures, to Envirotech in Farmington, New Mexico, for analysis of the COCs.

Laboratory analytical results for soil samples (HA-4, HA-5, and HA-8 through HA-11) were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for delineation soil samples collected within the AOC (HA-1 through HA-3, HA-6 and HA-7) indicated chloride and/or total TPH were above the Site Closure Criteria and/or the reclamation standard up to 12 feet bgs. Elevated chloride is characterized by concentrations ranging from 612 mg/kg to 2,940 mg/kg. Elevated total TPH concentrations were characterized by concentrations ranging from 277 mg/kg to 1,820 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**. **Photographic Documentation** of all activities are attached.

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



Remediation Activities

During October of 2025, a Kinetik third-party contractor performed excavation activities of identified impacts via mechanical equipment, based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths ranging from 8 to 14 feet bgs.

Following the removal of soil, ESRR collected five-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-17) and sidewalls (SW-1 and SW-20). The five-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

Laboratory analytical results for confirmation soil samples (CS-11 and CS-12) indicated chloride concentrations exceeded the Site Closure Criteria and/or reclamation standard. Elevated chloride is characterized by concentrations ranging from 747 to 856 mg/kg at 8 feet bgs.

Additional excavation in the proximities to confirmation soil samples (CS-11 and CS-12) were vertically advanced to an approximate depth of 9 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 the concentration of COCs for all final confirmation soil samples were below the applicable Site Closure Criteria and/or reclamation standard. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all final confirmation soil samples are shown in **Figure 3**.

Approximately 1,520 cubic yards (CY) of impacted soil was removed from the Site and transported to Lea Land, LLC Landfill near Carlsbad, New Mexico under Kinetik approved manifests. Upon receipt of the final confirmation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion.

Closure Request

Based on laboratory analytical results, impacts associated with the inadvertent release have been delineated, excavated, and removed from the Site in accordance with the Site Closure Criteria. Kinetik believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment, and groundwater. As such, NFA appears warranted at this time, and Kinetik respectfully requests Closure of this CRR associated with Incident Number nAPP2521144311.

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

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

A handwritten signature in black ink that reads "Gilbert Moreno".

Gilbert Moreno
Carlsbad Operations Manager/ Project Geologist

A handwritten signature in black ink that reads "Kris Williams".

Kris Williams, CHMM, REM
Principal

cc: Ivan Jimenez, Kinetik Midstream
Sebastian Orozco, Kinetik Midstream
Bureau of Land Management

Attachments:

- Figure 1 - Site Map
- Figure 1A - Groundwater
- Figure 1B - Karst Potential
- Figure 2 - Delineation Soil Sample Locations
- Figure 3 - Excavation Soil Sample Locations
- Referenced Well Record
- Photographic Documentation
- Table 1 - Soil Sample Analytical Results
- NMOCD Email Documentation & Correspondence
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports

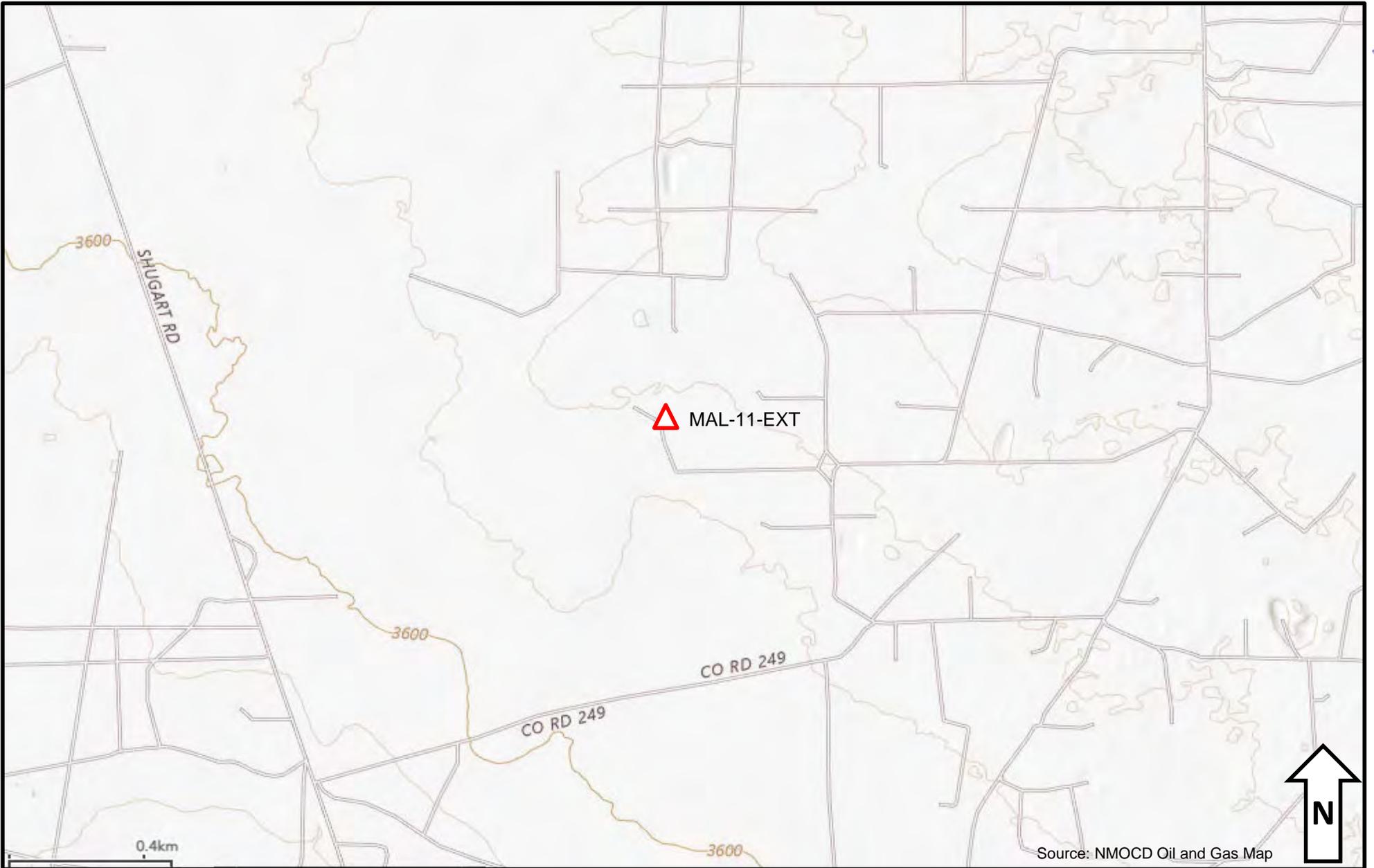
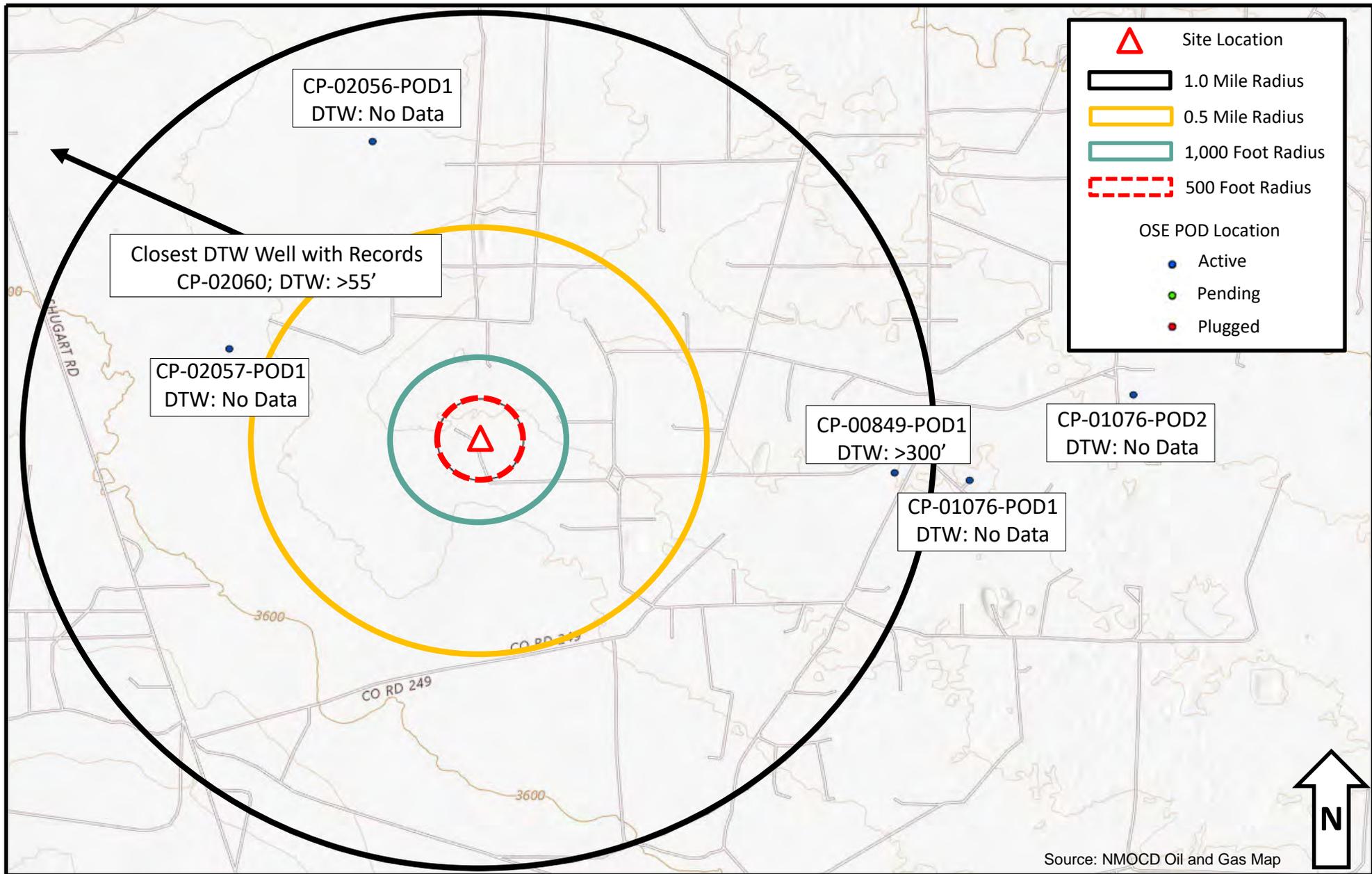


Figure 1 – Site Map

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico





Source: NMOCD Oil and Gas Map

Figure 1A – Groundwater

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico





Figure 1B – Karst Potential
Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico



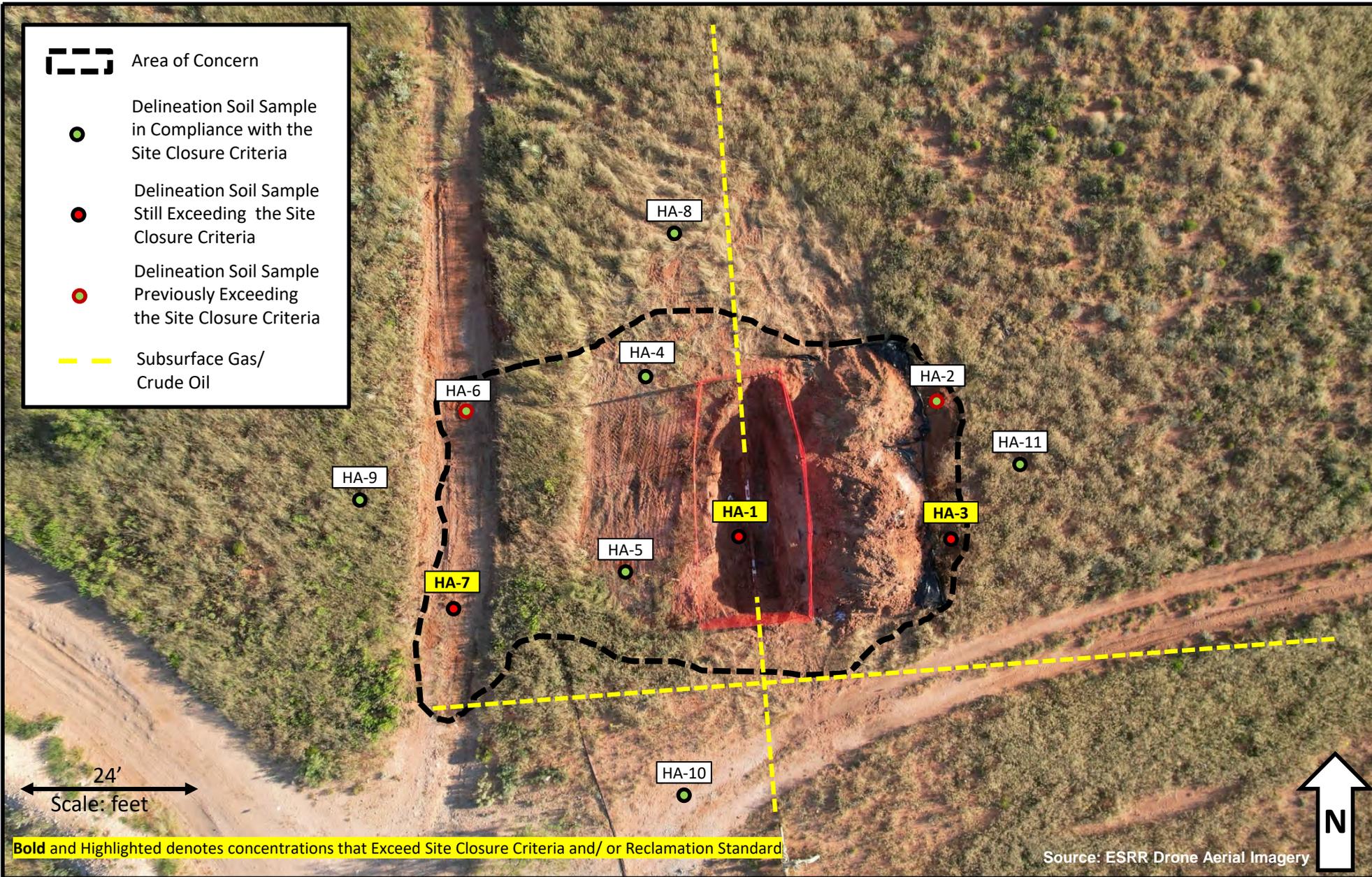


Figure 2 – Delineation Soil Sample Locations

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico



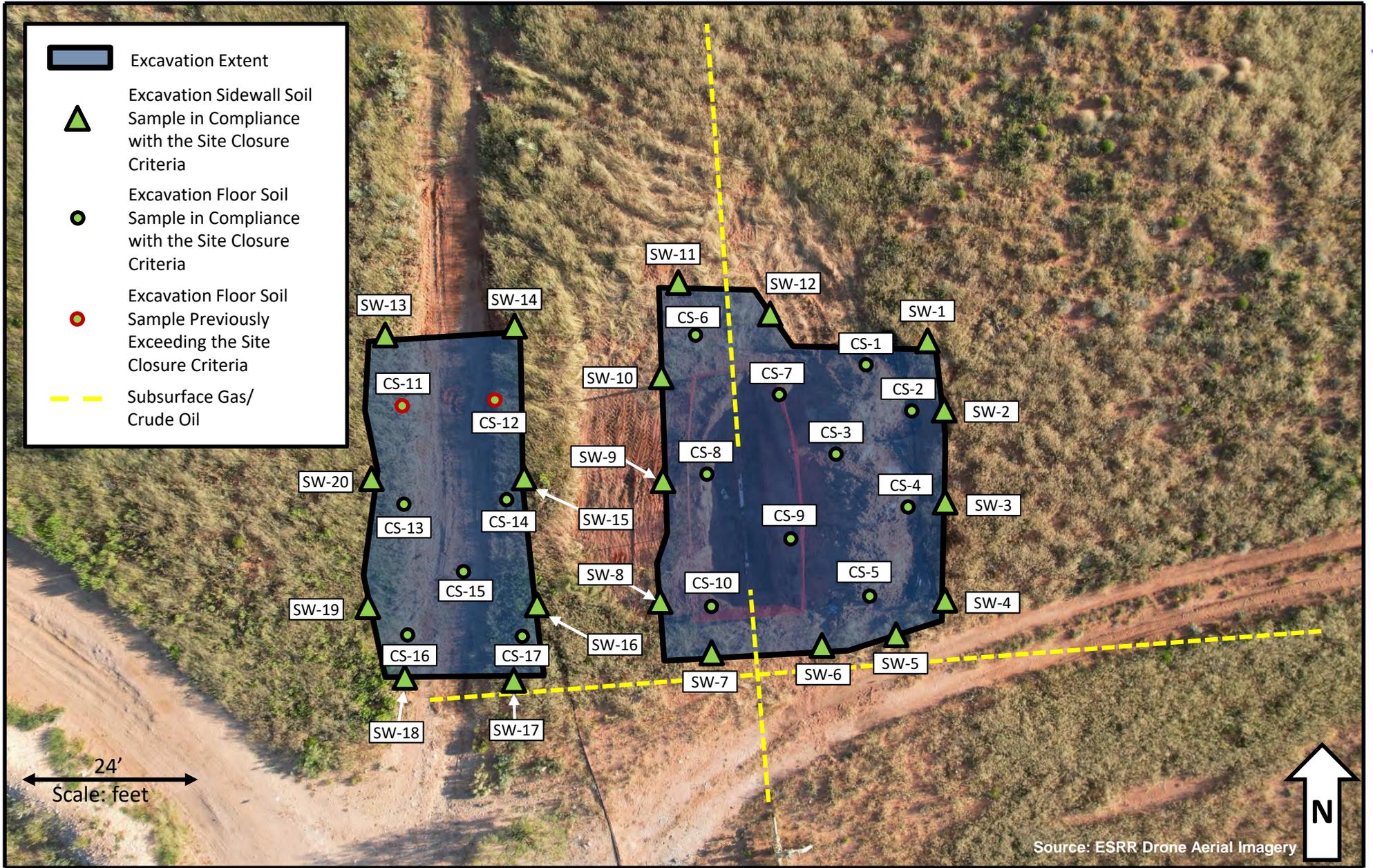


Figure 3 – Excavation Soil Sample Locations

Kinetik Midstream – MAL-11-EXT
GPS: 32.702382°, -103.863279°
Eddy County, New Mexico



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) CP-2060			
	WELL OWNER NAME(S) Devon Energy Production				PHONE (OPTIONAL) 575-748-0167			
	WELL OWNER MAILING ADDRESS 6488 Seven Rivers Hwy.				CITY Artesia	STATE ZIP NM 88210		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 42	SECONDS 56.38	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	53	43.08	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE UL-K S-29 T-18S R-31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 5/14/25	DRILLING ENDED 5/14/25	DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Dry Hole			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 5/23/24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				No Casing Left in Hole				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

OSE DII ROSWELL, NM
17 JUN '25 PM 1:28

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 09/22/2022)			
FILE NO.	CP-02060	POD NO.	1	TRN NO.	781734		
LOCATION	145. 31E. 29. 323			WELL TAG ID NO.		PAGE 1 OF 2	

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 781734
File Nbr: CP 02060
Well File Nbr: CP 02060 POD1

Jul. 17, 2025

JIM RALEY
DEVON ENERGY PRODUCTION
6488 SEVEN RIVERS HIGHWAY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 03/28/2025.

The Well Record was received in this office on 06/17/2025, stating that it had been completed on 05/14/2025, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/28/2026.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

drywell

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 1: Northwestern view during initial site assessment activities. 7/31/2025



PHOTO 2: Northeastern view during initial site assessment activities. 7/31/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 3: Northern view during delineation activities. 8/6/2025



PHOTO 4: Northern view of during delineation activities. 8/6/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°

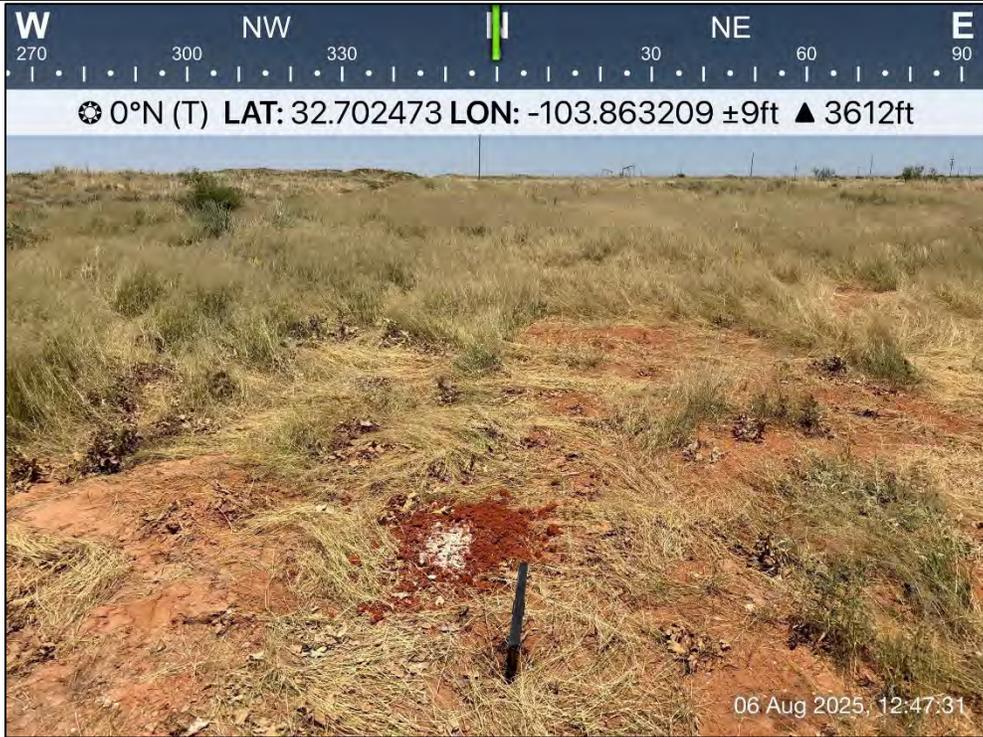


PHOTO 5: Northern view during delineation activities. 8/6/2025



PHOTO 6: Northern view during delineation activities. 8/6/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 7: Northern view during delineation activities. 8/6/2025



PHOTO 8: Northern view during delineation activities. 8/6/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°

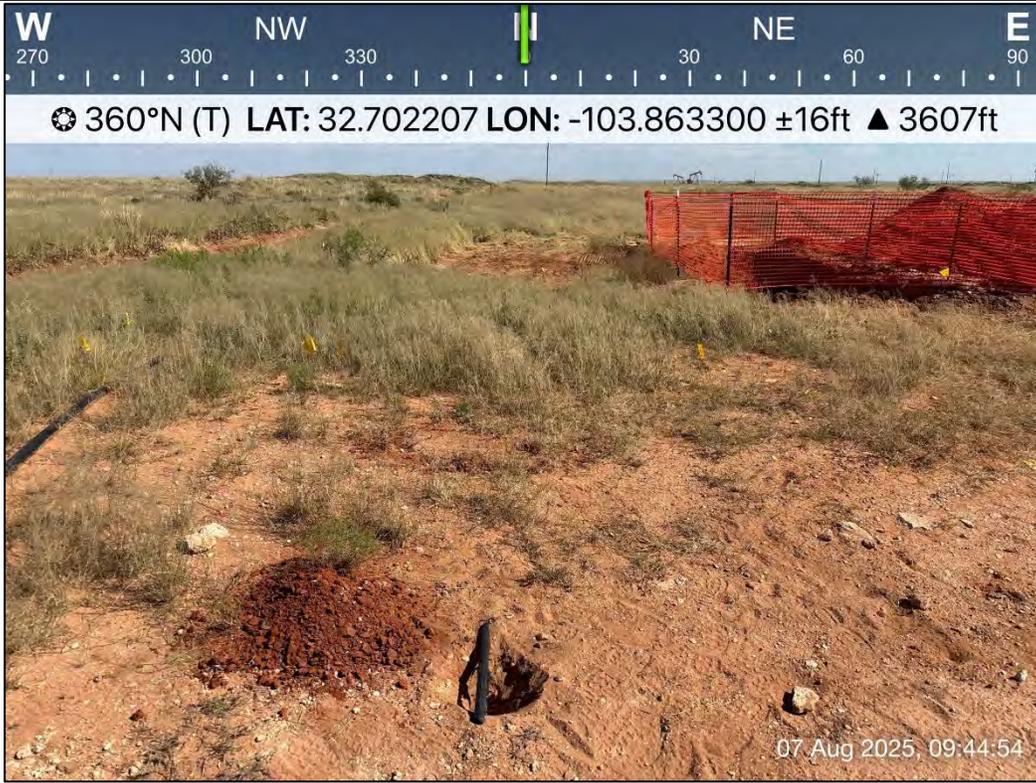


PHOTO 9: Northern view during delineation activities. 8/7/2025

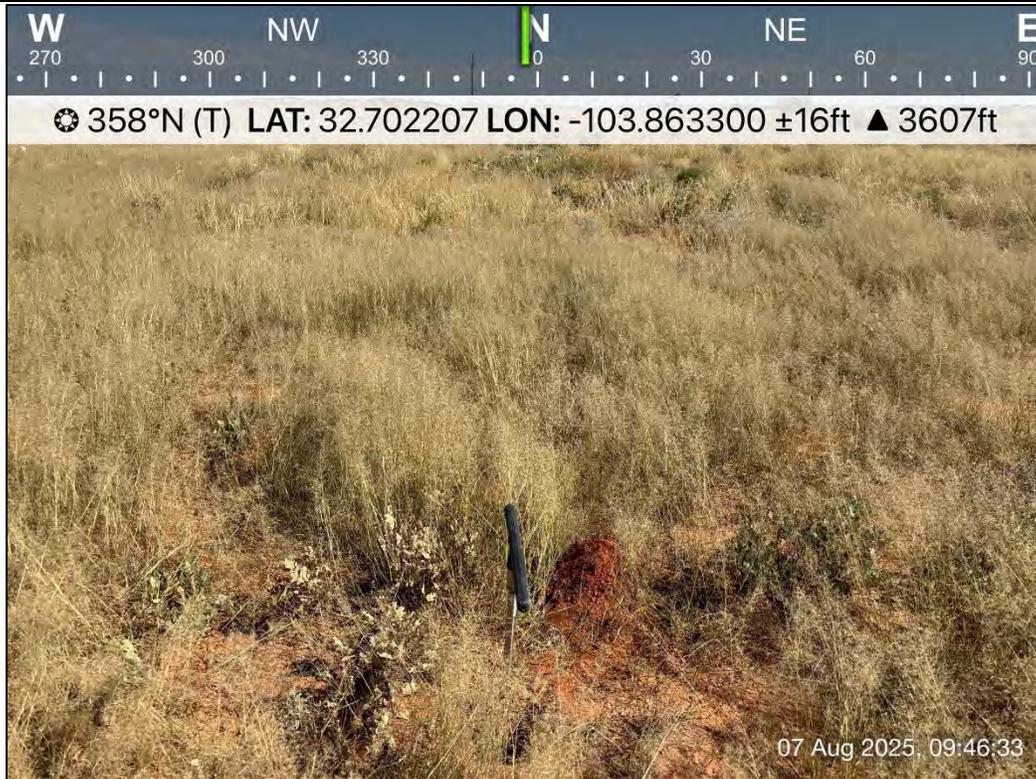


PHOTO 10: Northern view during delineation activities. 8/7/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 11: Northwestern view during delineation activities. 9/3/2025



PHOTO 12: Southwestern view during delineation activities. 9/3/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 13: Southeastern view during delineation activities. 9/3/2025

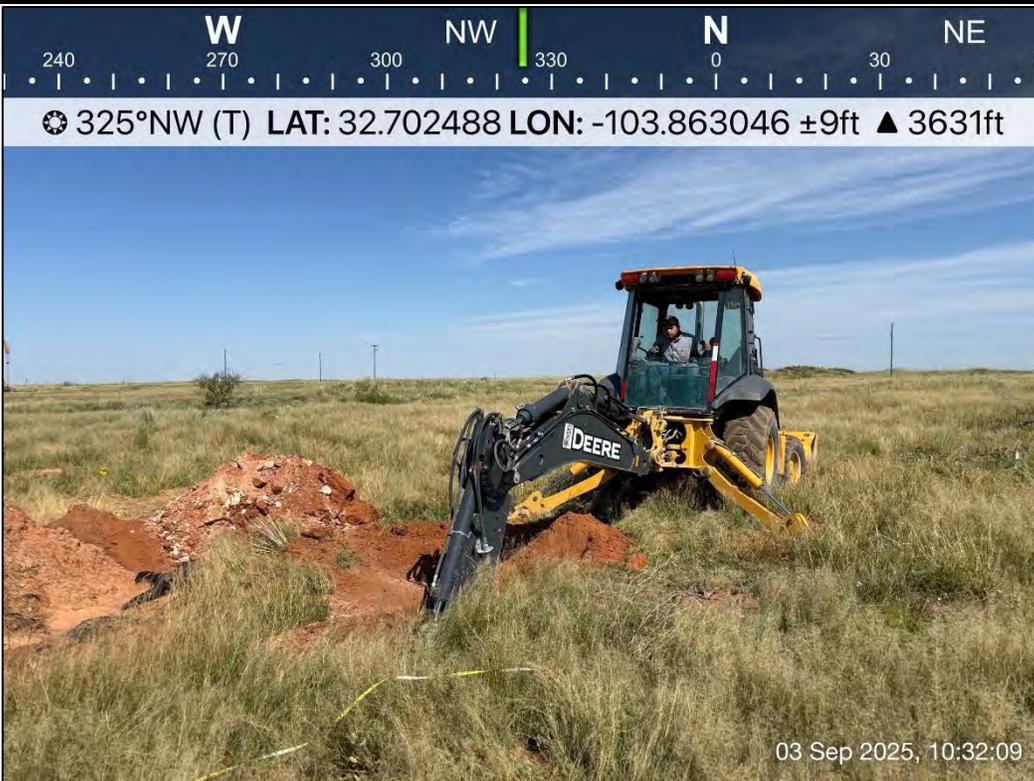


PHOTO 14: Northwestern view during delineation activities. 9/3/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 15: Northwestern view during excavation activities. 10/10/2025

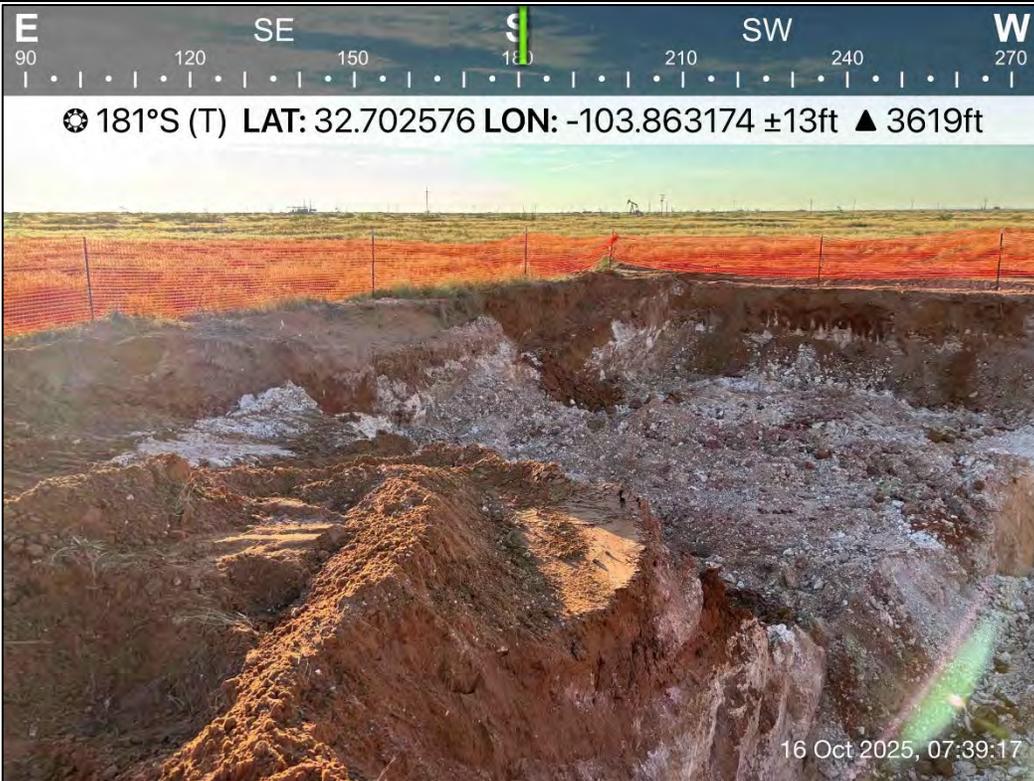


PHOTO 16: Southern view of excavation extent. 10/16/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 17: Southwestern view of excavation extent. 10/16/2025

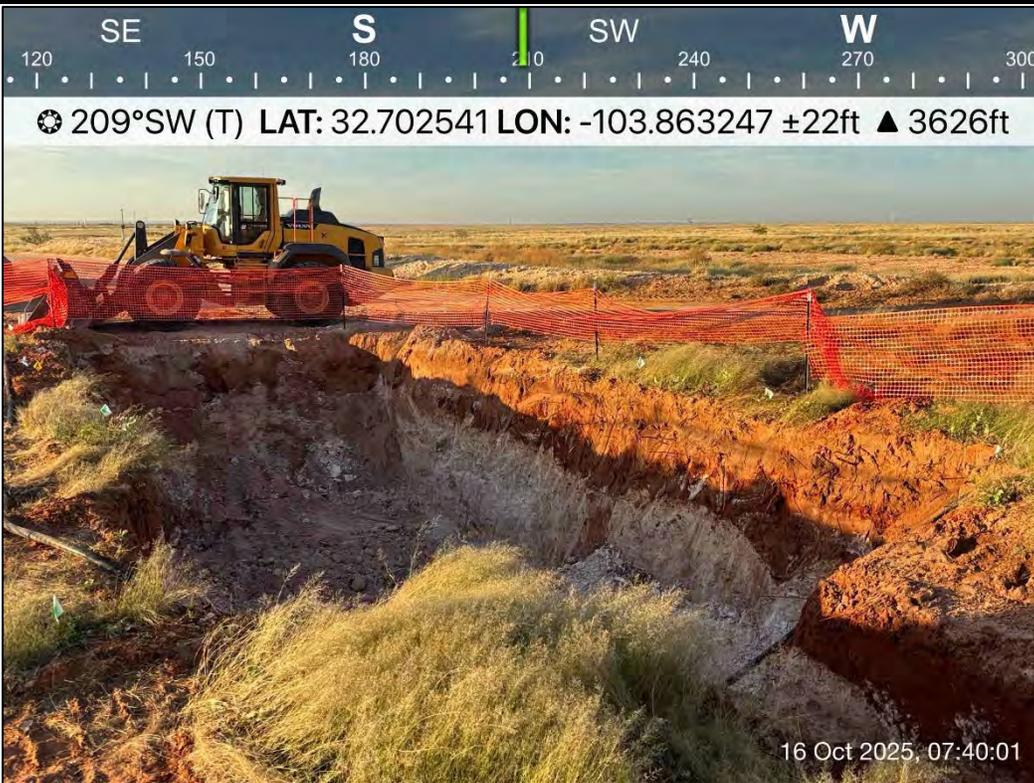


PHOTO 18: Southwestern view of excavation extent. 10/16/2025

MAL-11-EXT - Closure Request Report
Incident Number: nAPP2521144311
GPS: 32.702382°, -103.863279°



PHOTO 19: Northwestern view following restoration activities. 11/3/2025



PHOTO 20: Northeastern view following restoration activities. 11/3/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
MAL-11-EXT
Eddy County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Samples - nAPP2521144311									
HA - 1	8/6/2025	6	<0.00202	0.0401	54.3	1,690	72.4	1,820	2,940
HA - 1	9/3/2025	8	0.00669	0.584	<50.2	430	<50.2	430	1,330
HA - 1	9/3/2025	12	<0.00199	0.0875	<50.1	277	<50.1	277	1,660
HA - 2	8/6/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	12.1
HA - 2	8/6/2025	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	765
HA - 2	8/6/2025	5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	1,320
HA - 2	9/3/2025	8	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	152
HA - 3	8/6/2025	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	166
HA - 3	8/6/2025	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	835
HA - 3	8/6/2025	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,110
HA - 3	9/3/2025	8	<0.00199	0.0779	<50.0	<50.0	<50.0	<50.0	547
HA - 3	9/3/2025	10	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	664
HA - 4	8/6/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<9.98
HA - 4	8/6/2025	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	40.9
HA - 5	8/6/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	351
HA - 5	8/6/2025	4	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	23.7
HA - 6	8/6/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	1,200
HA - 6	8/6/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	929
HA - 6	8/6/2025	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,020
HA - 6	9/3/2025	8	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	466
HA - 7	8/6/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	403
HA - 7	8/6/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	943
HA - 7	8/6/2025	4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	824
HA - 7	9/3/2025	8	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	661
HA - 7	9/3/2025	10	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	612



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
MAL-11-EXT
Eddy County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Samples - nAPP2521144311									
HA - 8	8/7/2025	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	10.6
HA - 8	8/7/2025	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<10.0
HA - 9	8/7/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<10.1
HA - 9	8/7/2025	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	18.5
HA - 9	8/7/2025	6	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	41.0
HA - 10	8/7/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	19.8
HA - 10	8/7/2025	4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	44.8
HA - 10	8/7/2025	6	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	102
HA - 11	8/7/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<9.94
HA - 11	8/7/2025	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<9.98
Confirmation Soil Samples - nAPP2521144311									
CS - 1	10/10/2025	8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	227
CS - 2	10/10/2025	8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	72.7
CS - 3	10/10/2025	8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	190
CS - 4	10/10/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	102
CS - 5	10/10/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	154
CS - 6	10/16/2025	14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	113
CS - 7	10/16/2025	14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	143
CS - 8	10/16/2025	14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	163
CS - 9	10/16/2025	14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	51.5
CS - 10	10/16/2025	14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	419
CS - 11	10/16/2025	8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	856
CS - 11	10/29/2025	9	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	184
CS - 12	10/16/2025	8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	747
CS - 12	10/29/2025	9	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	193
CS - 13	10/16/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	317
CS - 14	10/16/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	45.4
CS - 15	10/16/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	282



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
MAL-11-EXT
Eddy County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Confirmation Soil Samples - nAPP2521144311									
CS - 16	10/16/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	31.4
CS - 17	10/16/2025	12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	31.7
SW - 1	10/10/2025	0-8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	49.8
SW - 2	10/10/2025	0-8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	340
SW - 3	10/10/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0
SW - 4	10/10/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0
SW - 5	10/10/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0
SW - 6	10/10/2025	0-14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	91.7
SW - 7	10/10/2025	0-14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	26.1
SW - 8	10/10/2025	0-14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	<20.0
SW - 9	10/10/2025	0-14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	106
SW - 10	10/10/2025	0-14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	53.5
SW - 11	10/10/2025	0-14	<0.0250	<0.1250	<20.0	26.8	<50.0	26.8	131
SW - 12	10/10/2025	0-14	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	277
SW - 13	10/16/2025	0-8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	39.2
SW - 14	10/16/2025	0-8	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	37.2
SW - 15	10/16/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	44.0
SW - 16	10/16/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	31.4
SW - 17	10/16/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	68.9
SW - 18	10/16/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	278
SW - 19	10/16/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	306
SW - 20	10/16/2025	0-12	<0.0250	<0.1250	<20.0	<25.0	<50.0	<95.0	307

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.



(Extension Approval) - MAL-11-EXT - nAPP2521144311

From Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Date Mon 10/27/2025 10:51 AM
To Gilbert Moreno <gmoreno@earthsys.net>
Cc sorozco@kinetik.com <sorozco@kinetik.com>; ijimenez@kinetik.com <ijimenez@kinetik.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

RE: Incident #NAPP2521144311 MAL-11-EXT

Gilbert,

A 90-day extension is approved. Please have a remediation closure report uploaded to the OCD Permitting Portal no later than **January 26th, 2026**. Include this e-mail correspondence in the report.

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



From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Monday, October 27, 2025 10:34 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] MAL-11-EXT - Extension Request - nAPP2521144311

From: Gilbert Moreno <gmoreno@earthsys.net>
Sent: Monday, October 27, 2025 9:23 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>; Sebastian Orozco <sorozco@kinetik.com>; Ivan Jimenez <ijimenez@kinetik.com>
Subject: [EXTERNAL] MAL-11-EXT - Extension Request - nAPP2521144311

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking

on links or opening attachments.

Hello,

Earth Systems R & R (ESRR) on behalf of Kinetik Midstream (Kinetik) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the MAL-11-EXT (Site).

A produced water release was discovered on July 30, 2025, and was subsequently assigned Incident Number nAPP2521144311, assessed by ESRR on July 31, 2025. ESRR completed the initial delineation during August 2025 with continuation of activities via mechanical equipment on September 3, 2025. A Kinetik 3rd-party contractor began remediation activities on October 13, 2025. Upon review of the confirmation soil samples laboratory analytical results, additional excavation is necessary and is anticipated to commence October 28, 2025. Upon favorable laboratory analytical results, the 3rd-party contractor will proceed with restoration activities.

Kinetik requests an extension of the October 28, 2025, deadline for the release associated with Incident Number nAPP2521144311, to allow additional time for remediation and restoration activities and for ESRR to complete a subsequent corrective action closure report.

Regards,

Gilbert Moreno

Carlsbad Operations Manager- Project Geologist

O: (575) 323-9034 C: (832) 541-7719

gmoreno@earthsys.net

earthsys.net



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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 491824

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 491824
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,020
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/06/2025
Time sampling will commence	10:30 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	32.702420, -103.863173

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

CONDITIONS

Action 491824

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 491824
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/4/2025
sorozco	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.	8/4/2025

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

QUESTIONS

Action 491825

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 491825
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,020
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/07/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to sampling site	32.702420, -103.863173

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 491825

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 491825
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/4/2025
sorozco	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.	8/4/2025

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

QUESTIONS

Action 499860

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 499860
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,157
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/03/2025
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	32.702420°, -103.863173°

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

CONDITIONS

Action 499860

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 499860
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/27/2025
sorozco	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.	8/27/2025

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

QUESTIONS

Action 513370

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 513370
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,403
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/10/2025
Time sampling will commence	12:24 PM
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	32.702420, -103.863173

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 513370

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 513370
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/8/2025
sorozco	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.	10/8/2025

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**State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505**

QUESTIONS

Action 514412

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 514412
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2025
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	32.702420, -103.863173

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 514412

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 514412
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/13/2025
sorozco	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.	10/13/2025

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS

Action 520139

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 520139
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
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	10/29/2025
Time sampling will commence	09:30 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	32.702420, -103.863173

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 520139

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 520139
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
ijimenez	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/27/2025
ijimenez	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.	10/27/2025



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

MAL - 11 - EXT
 Eddy County, NM

JOB NUMBER

890-8588-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



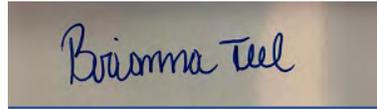
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
8/18/2025 11:11:56 AM
Revision 1

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: MAL - 11 - EXT

Laboratory Job ID: 890-8588-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL - 11 - EXT

Job ID: 890-8588-1

Job ID: 890-8588-1

Eurofins Carlsbad

Job Narrative 890-8588-1

REVISION

The report being provided is a revision of the original report sent on 8/15/2025. The report (revision 1) is being revised due to Revised to correct sample depths to match COC.

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 samples were received on 8/7/2025 11:35 AM. 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 -2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 1 (890-8588-1), HA - 2 (890-8588-2) and HA - 3 (890-8588-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 1 (890-8588-1) and (880-60972-A-17 MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA - 1 (890-8588-1). 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

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: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

Client Sample ID: HA - 1
Date Collected: 08/06/25 13:00
Date Received: 08/07/25 11:35
Sample Depth: 6'

Lab Sample ID: 890-8588-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 07:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 07:16	1
Ethylbenzene	0.00232		0.00202		mg/Kg		08/08/25 09:11	08/09/25 07:16	1
m-Xylene & p-Xylene	0.0279		0.00403		mg/Kg		08/08/25 09:11	08/09/25 07:16	1
o-Xylene	0.00988		0.00202		mg/Kg		08/08/25 09:11	08/09/25 07:16	1
Xylenes, Total	0.0378		0.00403		mg/Kg		08/08/25 09:11	08/09/25 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	08/08/25 09:11	08/09/25 07:16	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	08/08/25 09:11	08/09/25 07:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0401		0.00403		mg/Kg			08/09/25 07:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1820		50.0		mg/Kg			08/15/25 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.3		50.0		mg/Kg		08/08/25 11:23	08/15/25 11:12	1
Diesel Range Organics (Over C10-C28)	1690		50.0		mg/Kg		08/08/25 11:23	08/15/25 11:12	1
Oil Range Organics (Over C28-C36)	72.4		50.0		mg/Kg		08/08/25 11:23	08/15/25 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/08/25 11:23	08/15/25 11:12	1
o-Terphenyl	132	S1+	70 - 130	08/08/25 11:23	08/15/25 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2940		50.5		mg/Kg			08/13/25 00:55	5

Client Sample ID: HA - 2
Date Collected: 08/06/25 13:05
Date Received: 08/07/25 11:35
Sample Depth: 0.5'

Lab Sample ID: 890-8588-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 07:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 07:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 07:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 07:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 07:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 07:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

Client Sample ID: HA - 2
Date Collected: 08/06/25 13:05
Date Received: 08/07/25 11:35
Sample Depth: 0.5'

Lab Sample ID: 890-8588-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/08/25 09:11	08/09/25 07:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/25 09:11	08/09/25 07:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/25 07:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/25 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/08/25 11:23	08/15/25 11:29	1
o-Terphenyl	87		70 - 130	08/08/25 11:23	08/15/25 11:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		10.1		mg/Kg			08/13/25 01:03	1

Client Sample ID: HA - 3
Date Collected: 08/06/25 13:20
Date Received: 08/07/25 11:35
Sample Depth: 0.5

Lab Sample ID: 890-8588-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 07:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 07:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 07:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/25 09:11	08/09/25 07:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 07:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/25 09:11	08/09/25 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/08/25 09:11	08/09/25 07:57	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/25 09:11	08/09/25 07:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/09/25 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/25 11:44	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

Client Sample ID: HA - 3
Date Collected: 08/06/25 13:20
Date Received: 08/07/25 11:35
Sample Depth: 0.5

Lab Sample ID: 890-8588-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 11:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 11:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/08/25 11:23	08/15/25 11:44	1
o-Terphenyl	90		70 - 130	08/08/25 11:23	08/15/25 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		10.0		mg/Kg			08/13/25 01:10	1

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

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-8588-1	HA - 1	72	63 S1-
890-8588-2	HA - 2	118	97
890-8588-3	HA - 3	120	97
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-8588-1	HA - 1	99	132 S1+
890-8588-2	HA - 2	83	87
890-8588-3	HA - 3	85	90
LCS 880-116232/2-A	Lab Control Sample	110	112
LCSD 880-116232/3-A	Lab Control Sample Dup	108	111
MB 880-116232/1-A	Method Blank	89	102

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130	08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116232/1-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/08/25 11:12	08/15/25 06:57	1
o-Terphenyl	102		70 - 130	08/08/25 11:12	08/15/25 06:57	1

Lab Sample ID: LCS 880-116232/2-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	993.7		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	984.9		mg/Kg		98	70 - 130	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116269/1-A
 Matrix: Solid
 Analysis Batch: 116419

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 21:22	1

Lab Sample ID: LCS 880-116269/2-A
 Matrix: Solid
 Analysis Batch: 116419

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-116269/3-A
 Matrix: Solid
 Analysis Batch: 116419

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

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

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXTJob ID: 890-8588-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Total/NA	Solid	8021B	116192
890-8588-2	HA - 2	Total/NA	Solid	8021B	116192
890-8588-3	HA - 3	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Total/NA	Solid	5035	
890-8588-2	HA - 2	Total/NA	Solid	5035	
890-8588-3	HA - 3	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Total/NA	Solid	Total BTEX	
890-8588-2	HA - 2	Total/NA	Solid	Total BTEX	
890-8588-3	HA - 3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Total/NA	Solid	8015NM Prep	
890-8588-2	HA - 2	Total/NA	Solid	8015NM Prep	
890-8588-3	HA - 3	Total/NA	Solid	8015NM Prep	
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Total/NA	Solid	8015B NM	116232
890-8588-2	HA - 2	Total/NA	Solid	8015B NM	116232
890-8588-3	HA - 3	Total/NA	Solid	8015B NM	116232
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015B NM	116232
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116232
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116232

Analysis Batch: 116822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Total/NA	Solid	8015 NM	
890-8588-2	HA - 2	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 116822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-3	HA - 3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Soluble	Solid	DI Leach	
890-8588-2	HA - 2	Soluble	Solid	DI Leach	
890-8588-3	HA - 3	Soluble	Solid	DI Leach	
MB 880-116269/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116269/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116269/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 116419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8588-1	HA - 1	Soluble	Solid	300.0	116269
890-8588-2	HA - 2	Soluble	Solid	300.0	116269
890-8588-3	HA - 3	Soluble	Solid	300.0	116269
MB 880-116269/1-A	Method Blank	Soluble	Solid	300.0	116269
LCS 880-116269/2-A	Lab Control Sample	Soluble	Solid	300.0	116269
LCSD 880-116269/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116269

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
 SDG: Eddy County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8588-1

Date Collected: 08/06/25 13:00

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116334	08/09/25 07:16	SA	EET MID
Total/NA	Analysis	8015 NM		1			116822	08/15/25 11:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 11:12	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116269	08/08/25 14:59	SMC	EET MID
Soluble	Analysis	300.0		5			116419	08/13/25 00:55	CS	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-8588-2

Date Collected: 08/06/25 13:05

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116334	08/09/25 07:37	SA	EET MID
Total/NA	Analysis	8015 NM		1			116822	08/15/25 11:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 11:29	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116269	08/08/25 14:59	SMC	EET MID
Soluble	Analysis	300.0		1			116419	08/13/25 01:03	CS	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-8588-3

Date Collected: 08/06/25 13:20

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 07:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116334	08/09/25 07:57	SA	EET MID
Total/NA	Analysis	8015 NM		1			116822	08/15/25 11:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 11:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116269	08/08/25 14:59	SMC	EET MID
Soluble	Analysis	300.0		1			116419	08/13/25 01:10	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: MAL - 11 - EXT

Job ID: 890-8588-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8588-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8588-1	HA - 1	Solid	08/06/25 13:00	08/07/25 11:35	6'
890-8588-2	HA - 2	Solid	08/06/25 13:05	08/07/25 11:35	0.5'
890-8588-3	HA - 3	Solid	08/06/25 13:20	08/07/25 11:35	0.5

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

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

Bill to: (if different)
Company Name:
Address:
City, State ZIP:

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



Project Name: MAL-11-EXT
Project Number: 6932
Project Location: Eddy County, NM
Sampler's Name: Santiago Giron
CCWO #:
Turn Around: Routine Rush
Due Date:
Routine TAT
TAT starts the day received by the lab, if received by 4:30pm
Temp Blank: Yes No
Thermometer ID: *Thermo*
Cooler Custody Seals: Yes No N/A
Correction Factor: *-0.24*
Sample Custody Seals: Yes No N/A
Temperature Reading: *-2.4*
Total Containers: Corrected Temperature: *-2.2*

Parameters: TPH-NM, Chloride-NM, BTEX-NM, Hold, 24 Hr Rush

Preservative Codes: None: NO, DI Water: H₂O, Cool: Cool, MeOH: Me, HCL: HC, HNO₃: HN, H₂SO₄: H₂, NaOH: Na, H₃PO₄: HP, NaHSO₄: NABIS, Na₂S₂O₃: NaSO₃, Zn Acetate+NaOH: Zn, NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH-NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-1	S	8.6.25	13:00	6	Grab/1	1	X	X	X			
HA-2	S	8.6.25	13:05	0.5	Grab/1	1	X	X	X			
HA-3	S	8.6.25	13:20	0.5	Grab/1	1	X	X	X			

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

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

Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date/Time *8/7/13*

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

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Teel, Brianna	Carrier Tracking No(s): N/A	COC No: 890-5633-1																																				
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Brianna.Teel@eurofins.com	State of Origin: New Mexico	Page: Page 1 of 1																																					
Company: Eurofins Environment Testing South Central	Address: 1211 W. Florida Ave.	City: Midland	State, Zip: TX, 79701	Job #: 890-8588-1	Preservation Codes:																																				
Due Date Requested: 8/13/2025	TAT Requested (days): N/A	PO #: N/A	Project #: 88002337	SSOW#: N/A	Other: N/A																																				
Phone: 432-704-5440(Tel)	Project Name: MAL - 11 - EXT	Site: N/A	SSOW#: N/A																																						
<p>Analysis Requested</p> <table border="1"> <thead> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8015MOD_Calc8015 Calc</th> <th>Total_BTEX_GCV(MOD) Total BTEX</th> <th>8015MOD_NM/8015NM_S_PreptPH 8015</th> <th>300_ORGFM_28D/DI_LEACHChloride</th> <th>8021B/5035FP_Calc(MOD) BTEX</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> </tbody> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc8015 Calc	Total_BTEX_GCV(MOD) Total BTEX	8015MOD_NM/8015NM_S_PreptPH 8015	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total Number of containers	Special Instructions/Note:			X	X	X	X	X	1				X	X	X	X	X	1				X	X	X	X	X	1	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc8015 Calc	Total_BTEX_GCV(MOD) Total BTEX	8015MOD_NM/8015NM_S_PreptPH 8015	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total Number of containers	Special Instructions/Note:																																	
		X	X	X	X	X	1																																		
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		X	X	X	X	X	1																																		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Metal, Semimetal, Organometal, BT=Trace As=Al)	Preservation Code:																																			
HA - 1 (890-8588-1)		8/6/25	13:00	G	Solid																																				
HA - 2 (890-8588-2)		8/6/25	13:05	G	Solid																																				
HA - 3 (890-8588-3)		8/6/25	13:20	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/semi/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	8/17	16:30	
Relinquished by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	
		19/1.8 - 1	<i>[Signature]</i>

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8588-1
SDG Number: Eddy County, NM

Login Number: 8588
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8588-1
SDG Number: Eddy County, NM

Login Number: 8588
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:39 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/8/2025 11:27:54 AM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8751-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



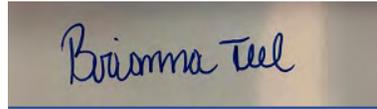
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
9/8/2025 11:27:54 AM

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: MAL-11-EXT

Laboratory Job ID: 890-8751-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8751-1

Job ID: 890-8751-1

Eurofins Carlsbad

Job Narrative 890-8751-1

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 samples were received on 9/4/2025 8:35 AM. 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 -5.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA -1 (890-8751-1). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-118303 and analytical batch 880-118309 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-118295/2-A). 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 880-118283 and analytical batch 880-118317 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

Client Sample ID: HA -1

Lab Sample ID: 890-8751-1

Date Collected: 09/03/25 13:00

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00669		0.00200		mg/Kg		09/05/25 17:00	09/05/25 18:21	1
Toluene	0.198		0.00200		mg/Kg		09/05/25 17:00	09/05/25 18:21	1
Ethylbenzene	0.317		0.00200		mg/Kg		09/05/25 17:00	09/05/25 18:21	1
m-Xylene & p-Xylene	0.0598		0.00399		mg/Kg		09/05/25 17:00	09/05/25 18:21	1
o-Xylene	0.00283		0.00200		mg/Kg		09/05/25 17:00	09/05/25 18:21	1
Xylenes, Total	0.0626		0.00399		mg/Kg		09/05/25 17:00	09/05/25 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	276	S1+	70 - 130	09/05/25 17:00	09/05/25 18:21	1
1,4-Difluorobenzene (Surr)	199	S1+	70 - 130	09/05/25 17:00	09/05/25 18:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.584		0.00399		mg/Kg			09/05/25 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	430		50.2		mg/Kg			09/06/25 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/04/25 16:46	09/06/25 01:22	1
Diesel Range Organics (Over C10-C28)	430		50.2		mg/Kg		09/04/25 16:46	09/06/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/04/25 16:46	09/06/25 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	09/04/25 16:46	09/06/25 01:22	1
o-Terphenyl	96		70 - 130	09/04/25 16:46	09/06/25 01:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330	F1	50.1		mg/Kg			09/05/25 17:05	5

Client Sample ID: HA -1

Lab Sample ID: 890-8751-2

Date Collected: 09/03/25 13:05

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/05/25 17:00	09/05/25 18:42	1
Toluene	0.0601		0.00199		mg/Kg		09/05/25 17:00	09/05/25 18:42	1
Ethylbenzene	0.0223		0.00199		mg/Kg		09/05/25 17:00	09/05/25 18:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/05/25 17:00	09/05/25 18:42	1
o-Xylene	0.00514		0.00199		mg/Kg		09/05/25 17:00	09/05/25 18:42	1
Xylenes, Total	0.00514		0.00398		mg/Kg		09/05/25 17:00	09/05/25 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/05/25 17:00	09/05/25 18:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

Client Sample ID: HA -1

Lab Sample ID: 890-8751-2

Date Collected: 09/03/25 13:05

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 12

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	09/05/25 17:00	09/05/25 18:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0875		0.00398		mg/Kg			09/05/25 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	277		50.1		mg/Kg			09/06/25 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		09/04/25 16:46	09/06/25 01:37	1
Diesel Range Organics (Over C10-C28)	277		50.1		mg/Kg		09/04/25 16:46	09/06/25 01:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/04/25 16:46	09/06/25 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	09/04/25 16:46	09/06/25 01:37	1
o-Terphenyl	93		70 - 130	09/04/25 16:46	09/06/25 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		49.9		mg/Kg			09/05/25 17:22	5

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-60970-A-20-A MB	Method Blank	104	118
890-8751-1	HA -1	276 S1+	199 S1+
890-8751-2	HA -1	96	93
LCS 880-118303/1-A	Lab Control Sample	99	96
LCSD 880-118303/2-A	Lab Control Sample Dup	95	92
MB 880-118303/5-A	Method Blank	97	134 S1+

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-8751-1	HA -1	98	96
890-8751-2	HA -1	93	93
LCS 880-118295/2-A	Lab Control Sample	131 S1+	136 S1+
LCSD 880-118295/3-A	Lab Control Sample Dup	121	125
MB 880-118295/1-A	Method Blank	110	106

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-60970-A-20-A MB
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 16:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/05/25 07:48	09/05/25 16:33	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/05/25 07:48	09/05/25 16:33	1

Lab Sample ID: MB 880-118303/5-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/05/25 07:48	09/05/25 11:33	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	09/05/25 07:48	09/05/25 11:33	1

Lab Sample ID: LCS 880-118303/1-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08906		mg/Kg		89	70 - 130
Toluene	0.100	0.1023		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09971		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09921		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-118303/2-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08899		mg/Kg		89	70 - 130	0	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118303/2-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Toluene	0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130	0	35
o-Xylene	0.100	0.09979		mg/Kg		100	70 - 130	1	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-118295/1-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	110		70 - 130	09/04/25 16:45	09/05/25 19:36	1
o-Terphenyl	106		70 - 130	09/04/25 16:45	09/05/25 19:36	1

Lab Sample ID: LCS 880-118295/2-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1185		mg/Kg		119	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1140		mg/Kg		114	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-118295/3-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1054		mg/Kg		105	70 - 130	8	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118295/3-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118295

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	125		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118283/1-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			09/05/25 16:47	1

Lab Sample ID: LCS 880-118283/2-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-118283/3-A
 Matrix: Solid
 Analysis Batch: 118317

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

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	250	255.5		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-8751-1 MS
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: HA -1
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Chloride	1330	F1	1250	2802	F1	mg/Kg		118	90 - 110

Lab Sample ID: 890-8751-1 MSD
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: HA -1
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
Chloride	1330	F1	1250	2796	F1	mg/Kg		117	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXTJob ID: 890-8751-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 118303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Total/NA	Solid	5035	
890-8751-2	HA -1	Total/NA	Solid	5035	
880-60970-A-20-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-118303/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118303/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118303/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 118309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Total/NA	Solid	8021B	118303
890-8751-2	HA -1	Total/NA	Solid	8021B	118303
880-60970-A-20-A MB	Method Blank	Total/NA	Solid	8021B	118303
MB 880-118303/5-A	Method Blank	Total/NA	Solid	8021B	118303
LCS 880-118303/1-A	Lab Control Sample	Total/NA	Solid	8021B	118303
LCSD 880-118303/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118303

Analysis Batch: 118449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Total/NA	Solid	Total BTEX	
890-8751-2	HA -1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 118295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Total/NA	Solid	8015NM Prep	
890-8751-2	HA -1	Total/NA	Solid	8015NM Prep	
MB 880-118295/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118295/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118295/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Total/NA	Solid	8015B NM	118295
890-8751-2	HA -1	Total/NA	Solid	8015B NM	118295
MB 880-118295/1-A	Method Blank	Total/NA	Solid	8015B NM	118295
LCS 880-118295/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118295
LCSD 880-118295/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118295

Analysis Batch: 118410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Total/NA	Solid	8015 NM	
890-8751-2	HA -1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 118283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Soluble	Solid	DI Leach	
890-8751-2	HA -1	Soluble	Solid	DI Leach	
MB 880-118283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 118283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8751-1 MS	HA -1	Soluble	Solid	DI Leach	
890-8751-1 MSD	HA -1	Soluble	Solid	DI Leach	

Analysis Batch: 118317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8751-1	HA -1	Soluble	Solid	300.0	118283
890-8751-2	HA -1	Soluble	Solid	300.0	118283
MB 880-118283/1-A	Method Blank	Soluble	Solid	300.0	118283
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	300.0	118283
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118283
890-8751-1 MS	HA -1	Soluble	Solid	300.0	118283
890-8751-1 MSD	HA -1	Soluble	Solid	300.0	118283

- 1
- 2
- 3
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- 11
- 12
- 13
- 14

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

Client Sample ID: HA -1

Lab Sample ID: 890-8751-1

Date Collected: 09/03/25 13:00

Matrix: Solid

Date Received: 09/04/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	118303	09/05/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118309	09/05/25 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118449	09/05/25 18:21	SA	EET MID
Total/NA	Analysis	8015 NM		1			118410	09/06/25 01:22	SA	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	118295	09/04/25 16:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118338	09/06/25 01:22	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		5			118317	09/05/25 17:05	CS	EET MID

Client Sample ID: HA -1

Lab Sample ID: 890-8751-2

Date Collected: 09/03/25 13:05

Matrix: Solid

Date Received: 09/04/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	118303	09/05/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118309	09/05/25 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118449	09/05/25 18:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			118410	09/06/25 01:37	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	118295	09/04/25 16:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118338	09/06/25 01:37	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		5			118317	09/05/25 17:22	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: MAL-11-EXT

Job ID: 890-8751-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date												
Texas	NELAP	T104704400	06-30-26												
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8015 NM</td> <td></td> <td>Solid</td> <td>Total TPH</td> </tr> <tr> <td>Total BTEX</td> <td></td> <td>Solid</td> <td>Total BTEX</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8015 NM		Solid	Total TPH	Total BTEX		Solid	Total BTEX
Analysis Method	Prep Method	Matrix	Analyte												
8015 NM		Solid	Total TPH												
Total BTEX		Solid	Total BTEX												

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Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8751-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8751-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8751-1	HA -1	Solid	09/03/25 13:00	09/04/25 08:35	8
890-8751-2	HA -1	Solid	09/03/25 13:05	09/04/25 08:35	12

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8751-1
SDG Number: Eddy County, NM

Login Number: 8751
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8751-1
SDG Number: Eddy County, NM

Login Number: 8751
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 09/05/25 11:20 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/15/2025 5:24:40 PM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8589-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



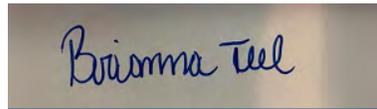
Eurofins Carlsbad

Job Notes

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

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

Authorization



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8/15/2025 5:24:40 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: MAL-11-EXT

Laboratory Job ID: 890-8589-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8589-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8589-1

Job ID: 890-8589-1

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Job Narrative 890-8589-1

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 samples were received on 8/7/2025 11:35 AM. 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 -2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-60972-A-17 MDLV). 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 880-116192 and analytical batch 880-116181 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-8589-1

Date Collected: 08/06/25 13:10

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 01:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 01:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 01:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/25 09:11	08/09/25 01:01	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/08/25 09:11	08/09/25 01:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/25 09:11	08/09/25 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/08/25 09:11	08/09/25 01:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/08/25 09:11	08/09/25 01:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/09/25 01:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/25 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 12:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 12:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/08/25 11:23	08/15/25 12:00	1
o-Terphenyl	96		70 - 130	08/08/25 11:23	08/15/25 12:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	765		10.0		mg/Kg			08/12/25 17:24	1

Client Sample ID: HA-2

Lab Sample ID: 890-8589-2

Date Collected: 08/06/25 13:15

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 01:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 01:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 01:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/25 09:11	08/09/25 01:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 01:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/25 09:11	08/09/25 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/08/25 09:11	08/09/25 01:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-8589-2

Date Collected: 08/06/25 13:15

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	08/08/25 09:11	08/09/25 01:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/09/25 01:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/25 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 12:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 12:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/08/25 11:23	08/15/25 12:15	1
o-Terphenyl	95		70 - 130	08/08/25 11:23	08/15/25 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		10.1		mg/Kg			08/12/25 17:41	1

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8589-1	HA-2	101	101
890-8589-1 MS	HA-2	125	100
890-8589-1 MSD	HA-2	122	94
890-8589-2	HA-2	118	101
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8589-1	HA-2	86	96
890-8589-2	HA-2	86	95
LCS 880-116232/2-A	Lab Control Sample	110	112
LCSD 880-116232/3-A	Lab Control Sample Dup	108	111
MB 880-116232/1-A	Method Blank	89	102

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	109		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-8589-1 MS
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: HA-2
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	<0.00200	U	0.100	0.09772		mg/Kg		98	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1018		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2100		mg/Kg		105	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.1429	F1	mg/Kg		143	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-8589-1 MSD
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: HA-2
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09933		mg/Kg		99	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.09556		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09341		mg/Kg		92	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1783		mg/Kg		89	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.100	0.1315	F1	mg/Kg		131	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-116232/1-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-116232/1-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	89		70 - 130	08/08/25 11:12	08/15/25 06:57	1			
o-Terphenyl	102		70 - 130	08/08/25 11:12	08/15/25 06:57	1			

Lab Sample ID: LCS 880-116232/2-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	993.7		mg/Kg		99	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	110		70 - 130				
o-Terphenyl	112		70 - 130				

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	984.9		mg/Kg		98	70 - 130	1	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	108		70 - 130						
o-Terphenyl	111		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116270/1-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 15:48	1

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-116270/2-A
Matrix: Solid
Analysis Batch: 116422

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	230.5		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-116270/3-A
Matrix: Solid
Analysis Batch: 116422

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	231.6		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-8589-1 MS
Matrix: Solid
Analysis Batch: 116422

Client Sample ID: HA-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	765		251	1008		mg/Kg		97	90 - 110

Lab Sample ID: 890-8589-1 MSD
Matrix: Solid
Analysis Batch: 116422

Client Sample ID: HA-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	765		251	1010		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Total/NA	Solid	8021B	116192
890-8589-2	HA-2	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192
890-8589-1 MS	HA-2	Total/NA	Solid	8021B	116192
890-8589-1 MSD	HA-2	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Total/NA	Solid	5035	
890-8589-2	HA-2	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8589-1 MS	HA-2	Total/NA	Solid	5035	
890-8589-1 MSD	HA-2	Total/NA	Solid	5035	

Analysis Batch: 116328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Total/NA	Solid	Total BTEX	
890-8589-2	HA-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Total/NA	Solid	8015NM Prep	
890-8589-2	HA-2	Total/NA	Solid	8015NM Prep	
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Total/NA	Solid	8015B NM	116232
890-8589-2	HA-2	Total/NA	Solid	8015B NM	116232
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015B NM	116232
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116232
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116232

Analysis Batch: 116823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Total/NA	Solid	8015 NM	
890-8589-2	HA-2	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

HPLC/IC

Leach Batch: 116270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Soluble	Solid	DI Leach	
890-8589-2	HA-2	Soluble	Solid	DI Leach	
MB 880-116270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8589-1 MS	HA-2	Soluble	Solid	DI Leach	
890-8589-1 MSD	HA-2	Soluble	Solid	DI Leach	

Analysis Batch: 116422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8589-1	HA-2	Soluble	Solid	300.0	116270
890-8589-2	HA-2	Soluble	Solid	300.0	116270
MB 880-116270/1-A	Method Blank	Soluble	Solid	300.0	116270
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	300.0	116270
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116270
890-8589-1 MS	HA-2	Soluble	Solid	300.0	116270
890-8589-1 MSD	HA-2	Soluble	Solid	300.0	116270

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-8589-1

Date Collected: 08/06/25 13:10

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116328	08/09/25 01:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			116823	08/15/25 12:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 12:00	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:24	CS	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-8589-2

Date Collected: 08/06/25 13:15

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116328	08/09/25 01:21	SA	EET MID
Total/NA	Analysis	8015 NM		1			116823	08/15/25 12:15	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 12:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:41	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: MAL-11-EXT

Job ID: 890-8589-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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

Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8589-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8589-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8589-1	HA-2	Solid	08/06/25 13:10	08/07/25 11:35	2
890-8589-2	HA-2	Solid	08/06/25 13:15	08/07/25 11:35	5

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8589-1
SDG Number: Eddy County, NM

Login Number: 8589

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8589-1
SDG Number: Eddy County, NM

Login Number: 8589
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:39 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/8/2025 11:32:50 AM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8752-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



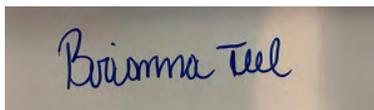
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
9/8/2025 11:32:50 AM

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: MAL-11-EXT

Laboratory Job ID: 890-8752-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8752-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8752-1

Job ID: 890-8752-1

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Job Narrative 890-8752-1

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 9/4/2025 8:35 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 -5.8°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-118359/20). 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: (LCS 880-118295/2-A). 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

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: MAL-11-EXT

Job ID: 890-8752-1
 SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-8752-1

Date Collected: 09/03/25 13:10

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/05/25 14:36	09/06/25 09:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/05/25 14:36	09/06/25 09:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/05/25 14:36	09/06/25 09:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/05/25 14:36	09/06/25 09:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/05/25 14:36	09/06/25 09:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/05/25 14:36	09/06/25 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/05/25 14:36	09/06/25 09:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/05/25 14:36	09/06/25 09:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/06/25 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/06/25 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/04/25 16:46	09/06/25 01:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/04/25 16:46	09/06/25 01:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/04/25 16:46	09/06/25 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	09/04/25 16:46	09/06/25 01:53	1
o-Terphenyl	87		70 - 130	09/04/25 16:46	09/06/25 01:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		10.1		mg/Kg			09/05/25 17:28	1

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8752-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8752-1	HA-2	109	96
LCS 880-118364/1-A	Lab Control Sample	104	104
LCSD 880-118364/2-A	Lab Control Sample Dup	102	98
MB 880-118318/5-A	Method Blank	91	92
MB 880-118364/5-A	Method Blank	92	95

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8752-1	HA-2	98	87
LCS 880-118295/2-A	Lab Control Sample	131 S1+	136 S1+
LCSD 880-118295/3-A	Lab Control Sample Dup	121	125
MB 880-118295/1-A	Method Blank	110	106

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8752-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-118318/5-A
 Matrix: Solid
 Analysis Batch: 118359

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 09:23	09/05/25 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 09:23	09/05/25 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 09:23	09/05/25 17:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 09:23	09/05/25 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 09:23	09/05/25 17:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 09:23	09/05/25 17:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	09/05/25 09:23	09/05/25 17:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/05/25 09:23	09/05/25 17:00	1

Lab Sample ID: MB 880-118364/5-A
 Matrix: Solid
 Analysis Batch: 118359

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 14:36	09/06/25 03:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 14:36	09/06/25 03:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 14:36	09/06/25 03:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 14:36	09/06/25 03:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 14:36	09/06/25 03:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 14:36	09/06/25 03:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	09/05/25 14:36	09/06/25 03:59	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/05/25 14:36	09/06/25 03:59	1

Lab Sample ID: LCS 880-118364/1-A
 Matrix: Solid
 Analysis Batch: 118359

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08991		mg/Kg		90	70 - 130
Toluene	0.100	0.08596		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.09269		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09503		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-118364/2-A
 Matrix: Solid
 Analysis Batch: 118359

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08545		mg/Kg		85	70 - 130	5	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8752-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118364/2-A
 Matrix: Solid
 Analysis Batch: 118359

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Toluene	0.100	0.07994		mg/Kg		80	70 - 130	7	35
Ethylbenzene	0.100	0.08504		mg/Kg		85	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1703		mg/Kg		85	70 - 130	10	35
o-Xylene	0.100	0.08509		mg/Kg		85	70 - 130	11	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-118295/1-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	110		70 - 130	09/04/25 16:45	09/05/25 19:36	1
o-Terphenyl	106		70 - 130	09/04/25 16:45	09/05/25 19:36	1

Lab Sample ID: LCS 880-118295/2-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1185		mg/Kg		119	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1140		mg/Kg		114	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-118295/3-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1054		mg/Kg		105	70 - 130	8	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8752-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118295/3-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118295

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	125		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118283/1-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			09/05/25 16:47	1

Lab Sample ID: LCS 880-118283/2-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-118283/3-A
 Matrix: Solid
 Analysis Batch: 118317

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

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	250	255.5		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXTJob ID: 890-8752-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 118318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-118318/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 118359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Total/NA	Solid	8021B	118364
MB 880-118318/5-A	Method Blank	Total/NA	Solid	8021B	118318
MB 880-118364/5-A	Method Blank	Total/NA	Solid	8021B	118364
LCS 880-118364/1-A	Lab Control Sample	Total/NA	Solid	8021B	118364
LCSD 880-118364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118364

Prep Batch: 118364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Total/NA	Solid	5035	
MB 880-118364/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118364/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118364/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 118458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 118295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Total/NA	Solid	8015NM Prep	
MB 880-118295/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118295/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118295/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Total/NA	Solid	8015B NM	118295
MB 880-118295/1-A	Method Blank	Total/NA	Solid	8015B NM	118295
LCS 880-118295/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118295
LCSD 880-118295/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118295

Analysis Batch: 118411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 118283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Soluble	Solid	DI Leach	
MB 880-118283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8752-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 118317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8752-1	HA-2	Soluble	Solid	300.0	118283
MB 880-118283/1-A	Method Blank	Soluble	Solid	300.0	118283
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	300.0	118283
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118283

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Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8752-1
 SDG: Eddy County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-8752-1

Date Collected: 09/03/25 13:10

Matrix: Solid

Date Received: 09/04/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	118364	09/05/25 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118359	09/06/25 09:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118458	09/06/25 09:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			118411	09/06/25 01:53	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	118295	09/04/25 16:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118338	09/06/25 01:53	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		1			118317	09/05/25 17:28	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8752-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8752-1
SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8752-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8752-1	HA-2	Solid	09/03/25 13:10	09/04/25 08:35	8

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- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

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

Bill to: (if different)
Company Name: Earth Systems R&R
Address:
City, State ZIP:

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

Project Name: MAL-11-EXT
Project Number: 6932
Project Location: Eddy County, NM
Sampler's Name: Santiago Giron
CCWO #:
Temp Blank: Yes No
Thermometer-ID:
Cooler Custody Seals: Yes No
Sample Custody Seals: Yes No
Total Containers:
Turn Around: Routine Rush
Due Date:
Routine TAT
TAT starts the day received by the lab, if received by 4:30pm
Wet Ice: Yes No
Parameters:
TPH-NM
Chloride-NM
BTEX-NM
Hold
24 Hr Rush

ANALYSIS REQUEST

Barcode: 890-8752 Chain of Custody

Preservative Codes
None: NO DI Water: H₂O
Cool: Cool MeOH: Me
HCL: HC HNO₃: HN
H₂SO₄: H₂ NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp # of Cont	TPH-NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-2	S	9.3.25	13.10	8	1	X	X	X			Incident Number NAPP2521144311

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

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

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

0 [Signature] [Signature] 9/4 8:35
3
5

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8752-1
SDG Number: Eddy County, NM

Login Number: 8752

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8752-1
SDG Number: Eddy County, NM

Login Number: 8752
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 09/05/25 11:20 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/15/2025 5:25:22 PM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8590-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



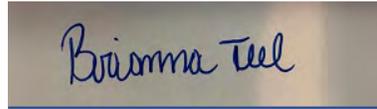
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Job Notes

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

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

Authorization



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8/15/2025 5:25:22 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: MAL-11-EXT

Laboratory Job ID: 890-8590-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8590-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8590-1

Job ID: 890-8590-1

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Job Narrative 890-8590-1

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 samples were received on 8/7/2025 11:35 AM. 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 -2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-3 (890-8590-1) and (880-60972-A-17 MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-8590-1

Date Collected: 08/06/25 13:25

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 01:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 01:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 01:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/25 09:11	08/09/25 01:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 01:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/25 09:11	08/09/25 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	373	S1+	70 - 130	08/08/25 09:11	08/09/25 01:42	1
1,4-Difluorobenzene (Surr)	128		70 - 130	08/08/25 09:11	08/09/25 01:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/09/25 01:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/25 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 12:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 12:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/08/25 11:23	08/15/25 12:30	1
o-Terphenyl	96		70 - 130	08/08/25 11:23	08/15/25 12:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	835		10.1		mg/Kg			08/12/25 17:47	1

Client Sample ID: HA-3

Lab Sample ID: 890-8590-2

Date Collected: 08/06/25 13:30

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 02:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 02:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 02:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 02:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 02:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/08/25 09:11	08/09/25 02:02	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-8590-2

Date Collected: 08/06/25 13:30

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	08/08/25 09:11	08/09/25 02:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/25 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/25 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 12:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 12:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/08/25 11:23	08/15/25 12:45	1
o-Terphenyl	94		70 - 130	08/08/25 11:23	08/15/25 12:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		10.0		mg/Kg			08/12/25 18:04	1

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8590-1	HA-3	373 S1+	128
890-8590-2	HA-3	109	106
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8590-1	HA-3	88	96
890-8590-2	HA-3	85	94
LCS 880-116232/2-A	Lab Control Sample	110	112
LCSD 880-116232/3-A	Lab Control Sample Dup	108	111
MB 880-116232/1-A	Method Blank	89	102

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	109		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116232/1-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/08/25 11:12	08/15/25 06:57	1
o-Terphenyl	102		70 - 130	08/08/25 11:12	08/15/25 06:57	1

Lab Sample ID: LCS 880-116232/2-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	993.7		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	984.9		mg/Kg		98	70 - 130	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116270/1-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 15:48	1

Lab Sample ID: LCS 880-116270/2-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-116270/3-A
 Matrix: Solid
 Analysis Batch: 116422

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

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

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Total/NA	Solid	8021B	116192
890-8590-2	HA-3	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Total/NA	Solid	5035	
890-8590-2	HA-3	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Total/NA	Solid	Total BTEX	
890-8590-2	HA-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Total/NA	Solid	8015NM Prep	
890-8590-2	HA-3	Total/NA	Solid	8015NM Prep	
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Total/NA	Solid	8015B NM	116232
890-8590-2	HA-3	Total/NA	Solid	8015B NM	116232
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015B NM	116232
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116232
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116232

Analysis Batch: 116824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Total/NA	Solid	8015 NM	
890-8590-2	HA-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8590-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 116270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-2	HA-3	Soluble	Solid	DI Leach	
MB 880-116270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 116422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8590-1	HA-3	Soluble	Solid	300.0	116270
890-8590-2	HA-3	Soluble	Solid	300.0	116270
MB 880-116270/1-A	Method Blank	Soluble	Solid	300.0	116270
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	300.0	116270
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116270

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Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-8590-1

Date Collected: 08/06/25 13:25

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 01:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116329	08/09/25 01:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			116824	08/15/25 12:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 12:30	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:47	CS	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-8590-2

Date Collected: 08/06/25 13:30

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 02:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116329	08/09/25 02:02	SA	EET MID
Total/NA	Analysis	8015 NM		1			116824	08/15/25 12:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 12:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:04	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: MAL-11-EXT

Job ID: 890-8590-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8590-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8590-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8590-1	HA-3	Solid	08/06/25 13:25	08/07/25 11:35	2
890-8590-2	HA-3	Solid	08/06/25 13:30	08/07/25 11:35	4

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Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
Company: Eurofins Environment Testing South Center

Sampler: N/A
Phone: N/A
Due Date Requested: 8/13/2025
TAT Requested (days): N/A

Lab P#: Teel, Brianna
E-Mail: Brianna_Teel@et.eurofins.com
Accreditations Required (See note): NELAP - Texas

Carrier Tracking No(s): N/A
State of Origin: New Mexico

COC No: 890-5635-1
Page: Page 1 of 1
Job #: 890-8590-1

Preservation Codes:

Address: 1211 W. Florida Ave.
City: Midland
State, Zip: TX, 79701
Phone: 432-704-5440(Tel)
Email: N/A
Project Name: MAL-11-EXT
Site: S50W#

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Metal, Organic, BTEX, As/Air)
HA-3 (890-8590-1)	8/6/25	13:25	G	Solid
HA-3 (890-8590-2)	8/6/25	13:30	G	Solid

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_PrePTPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH	8021B/5035FP_Calc(MOD)	Total_BTEX_GCV(MOD)
X	X	X	X	X	X	X
X	X	X	X	X	X	X

Total Number of containers: 1
Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Center, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Center, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Center, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Center, LLC.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Empty Kit Relinquished by:

Date/Time: 8/12 1630

Received by: [Signature]

Date/Time: 8/8/25

Received by: [Signature]

Date/Time: 8/8/25

Relinquished by:

Date/Time:

Received by:

Date/Time:

Received by:

Date/Time:

Relinquished by:

Date/Time:

Received by:

Date/Time:

Received by:

Date/Time:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

19/1.5

-61

TRX

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8590-1
SDG Number: Eddy County, NM

Login Number: 8590

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8590-1
SDG Number: Eddy County, NM

Login Number: 8590
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:33 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/11/2025 4:21:47 PM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8753-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



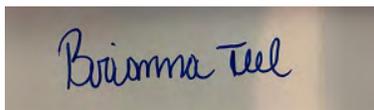
Eurofins Carlsbad

Job Notes

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

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

Authorization



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9/11/2025 4:21:47 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: MAL-11-EXT

Laboratory Job ID: 890-8753-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8753-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8753-1

Job ID: 890-8753-1

Eurofins Carlsbad

Job Narrative 890-8753-1

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 samples were received on 9/4/2025 8:35 AM. 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 -5.8°C.

Receipt Exceptions

The following samples received and analyzed from an unpreserved bulk soil jar: HA-3 (890-8753-1) and HA-3 (890-8753-2).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-118303 and analytical batch 880-118309 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-118295/2-A). 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

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: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-8753-1

Date Collected: 09/03/25 13:15

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/05/25 17:00	09/05/25 19:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/05/25 17:00	09/05/25 19:02	1
Ethylbenzene	0.0172		0.00199		mg/Kg		09/05/25 17:00	09/05/25 19:02	1
m-Xylene & p-Xylene	0.0109		0.00398		mg/Kg		09/05/25 17:00	09/05/25 19:02	1
o-Xylene	0.0498		0.00199		mg/Kg		09/05/25 17:00	09/05/25 19:02	1
Xylenes, Total	0.0607		0.00398		mg/Kg		09/05/25 17:00	09/05/25 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/05/25 17:00	09/05/25 19:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/05/25 17:00	09/05/25 19:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0779		0.00398		mg/Kg			09/05/25 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/06/25 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/04/25 16:46	09/06/25 02:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/04/25 16:46	09/06/25 02:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/04/25 16:46	09/06/25 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	09/04/25 16:46	09/06/25 02:08	1
o-Terphenyl	89		70 - 130	09/04/25 16:46	09/06/25 02:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		10.1		mg/Kg			09/05/25 17:34	1

Client Sample ID: HA-3

Lab Sample ID: 890-8753-2

Date Collected: 09/03/25 13:20

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/05/25 17:00	09/05/25 19:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/05/25 17:00	09/05/25 19:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/05/25 17:00	09/05/25 19:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/05/25 17:00	09/05/25 19:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/05/25 17:00	09/05/25 19:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/05/25 17:00	09/05/25 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	09/05/25 17:00	09/05/25 19:23	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-8753-2

Date Collected: 09/03/25 13:20

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	09/05/25 17:00	09/05/25 19:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/05/25 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/10/25 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/05/25 12:02	09/10/25 19:28	1
o-Terphenyl	103		70 - 130	09/05/25 12:02	09/10/25 19:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	664		10.0		mg/Kg			09/05/25 17:40	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8753-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-60970-A-20-A MB	Method Blank	104	118
890-8753-1	HA-3	112	94
890-8753-2	HA-3	96	108
LCS 880-118303/1-A	Lab Control Sample	99	96
LCSD 880-118303/2-A	Lab Control Sample Dup	95	92
MB 880-118303/5-A	Method Blank	97	134 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8753-1	HA-3	95	89
890-8753-2	HA-3	103	103
890-8753-2 MS	HA-3	112	105
890-8753-2 MSD	HA-3	112	105
LCS 880-118295/2-A	Lab Control Sample	131 S1+	136 S1+
LCS 880-118351/2-A	Lab Control Sample	114	113
LCSD 880-118295/3-A	Lab Control Sample Dup	121	125
LCSD 880-118351/3-A	Lab Control Sample Dup	113	110
MB 880-118295/1-A	Method Blank	110	106
MB 880-118351/1-A	Method Blank	92	94

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-60970-A-20-A MB
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 16:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		70 - 130	09/05/25 07:48	09/05/25 16:33	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/05/25 07:48	09/05/25 16:33	1

Lab Sample ID: MB 880-118303/5-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 11:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		70 - 130	09/05/25 07:48	09/05/25 11:33	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	09/05/25 07:48	09/05/25 11:33	1

Lab Sample ID: LCS 880-118303/1-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1023		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09971		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09921		mg/Kg		99	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-118303/2-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118303

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

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118303/2-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130	0	35
o-Xylene	0.100	0.09979		mg/Kg		100	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-118295/1-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/04/25 16:45	09/05/25 19:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/04/25 16:45	09/05/25 19:36	1
o-Terphenyl	106		70 - 130	09/04/25 16:45	09/05/25 19:36	1

Lab Sample ID: LCS 880-118295/2-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1185		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1140		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-118295/3-A
 Matrix: Solid
 Analysis Batch: 118338

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1054		mg/Kg		105	70 - 130	8	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118295/3-A
Matrix: Solid
Analysis Batch: 118338

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 118295

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: MB 880-118351/1-A
Matrix: Solid
Analysis Batch: 118622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 118351

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	92		70 - 130	09/05/25 12:02	09/10/25 18:45	1
o-Terphenyl	94		70 - 130	09/05/25 12:02	09/10/25 18:45	1

Lab Sample ID: LCS 880-118351/2-A
Matrix: Solid
Analysis Batch: 118622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118351

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier				Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	985.4		mg/Kg		99	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	996.2		mg/Kg		100	70 - 130	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	114		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-118351/3-A
Matrix: Solid
Analysis Batch: 118622

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 118351

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	985.1		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	1	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		70 - 130
o-Terphenyl	110		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8753-2 MS
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: HA-3
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	950.9		mg/Kg		95	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	996	914.2		mg/Kg		90	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	MS Limits							
1-Chlorooctane	112		70 - 130							
o-Terphenyl	105		70 - 130							

Lab Sample ID: 890-8753-2 MSD
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: HA-3
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	972.9		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	916.3		mg/Kg		90	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	105		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118283/1-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			09/05/25 16:47	1

Lab Sample ID: LCS 880-118283/2-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-118283/3-A
 Matrix: Solid
 Analysis Batch: 118317

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.5		mg/Kg		102	90 - 110	1	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXTJob ID: 890-8753-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 118303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Total/NA	Solid	5035	
890-8753-2	HA-3	Total/NA	Solid	5035	
880-60970-A-20-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-118303/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118303/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118303/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 118309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Total/NA	Solid	8021B	118303
890-8753-2	HA-3	Total/NA	Solid	8021B	118303
880-60970-A-20-A MB	Method Blank	Total/NA	Solid	8021B	118303
MB 880-118303/5-A	Method Blank	Total/NA	Solid	8021B	118303
LCS 880-118303/1-A	Lab Control Sample	Total/NA	Solid	8021B	118303
LCSD 880-118303/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118303

Analysis Batch: 118450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Total/NA	Solid	Total BTEX	
890-8753-2	HA-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 118295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Total/NA	Solid	8015NM Prep	
MB 880-118295/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118295/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118295/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Total/NA	Solid	8015B NM	118295
MB 880-118295/1-A	Method Blank	Total/NA	Solid	8015B NM	118295
LCS 880-118295/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118295
LCSD 880-118295/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118295

Prep Batch: 118351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-2	HA-3	Total/NA	Solid	8015NM Prep	
MB 880-118351/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118351/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8753-2 MS	HA-3	Total/NA	Solid	8015NM Prep	
890-8753-2 MSD	HA-3	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Total/NA	Solid	8015 NM	
890-8753-2	HA-3	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

GC Semi VOA

Analysis Batch: 118622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-2	HA-3	Total/NA	Solid	8015B NM	118351
MB 880-118351/1-A	Method Blank	Total/NA	Solid	8015B NM	118351
LCS 880-118351/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118351
LCSD 880-118351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118351
890-8753-2 MS	HA-3	Total/NA	Solid	8015B NM	118351
890-8753-2 MSD	HA-3	Total/NA	Solid	8015B NM	118351

HPLC/IC

Leach Batch: 118283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Soluble	Solid	DI Leach	
890-8753-2	HA-3	Soluble	Solid	DI Leach	
MB 880-118283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 118317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8753-1	HA-3	Soluble	Solid	300.0	118283
890-8753-2	HA-3	Soluble	Solid	300.0	118283
MB 880-118283/1-A	Method Blank	Soluble	Solid	300.0	118283
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	300.0	118283
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118283

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-8753-1

Date Collected: 09/03/25 13:15

Matrix: Solid

Date Received: 09/04/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	118303	09/05/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118309	09/05/25 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118450	09/05/25 19:02	SA	EET MID
Total/NA	Analysis	8015 NM		1			118412	09/06/25 02:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	118295	09/04/25 16:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118338	09/06/25 02:08	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		1			118317	09/05/25 17:34	CS	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-8753-2

Date Collected: 09/03/25 13:20

Matrix: Solid

Date Received: 09/04/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	118303	09/05/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118309	09/05/25 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118450	09/05/25 19:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			118412	09/10/25 19:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	118351	09/05/25 12:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118622	09/10/25 19:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		1			118317	09/05/25 17:40	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
Project/Site: MAL-11-EXT

Job ID: 890-8753-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8753-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8753-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8753-1	HA-3	Solid	09/03/25 13:15	09/04/25 08:35	8
890-8753-2	HA-3	Solid	09/03/25 13:20	09/04/25 08:35	10

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8753-1
SDG Number: Eddy County, NM

Login Number: 8753
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8753-1
SDG Number: Eddy County, NM

Login Number: 8753
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 09/05/25 11:20 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/13/2025 10:09:03 AM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8592-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



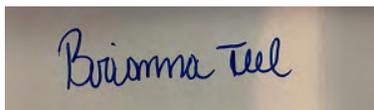
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
8/13/2025 10:09:03 AM

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: MAL-11-EXT

Laboratory Job ID: 890-8592-1
SDG: Eddy County,NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8592-1

Job ID: 890-8592-1

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Job Narrative 890-8592-1

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 samples were received on 8/7/2025 11:35 AM. 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 -2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-4 (890-8592-1), HA-4 (890-8592-2), HA-5 (890-8592-3), HA-5 (890-8592-4) and (880-60972-A-17 MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-116229/2-A). 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

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: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Client Sample ID: HA-4

Lab Sample ID: 890-8592-1

Date Collected: 08/06/25 13:35

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 03:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 03:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 03:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/25 09:11	08/09/25 03:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 03:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/25 09:11	08/09/25 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/08/25 09:11	08/09/25 03:03	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/08/25 09:11	08/09/25 03:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/09/25 03:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/12/25 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:14	08/12/25 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:14	08/12/25 02:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:14	08/12/25 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/08/25 11:14	08/12/25 02:45	1
o-Terphenyl	92		70 - 130	08/08/25 11:14	08/12/25 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			08/12/25 18:21	1

Client Sample ID: HA-4

Lab Sample ID: 890-8592-2

Date Collected: 08/06/25 13:40

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 03:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 03:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 03:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 03:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 03:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	08/08/25 09:11	08/09/25 03:24	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Client Sample ID: HA-4

Lab Sample ID: 890-8592-2

Date Collected: 08/06/25 13:40

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	08/08/25 09:11	08/09/25 03:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/25 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/12/25 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/08/25 11:14	08/12/25 03:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/25 11:14	08/12/25 03:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/25 11:14	08/12/25 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	08/08/25 11:14	08/12/25 03:01	1
o-Terphenyl	105		70 - 130	08/08/25 11:14	08/12/25 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.9		9.92		mg/Kg			08/12/25 18:26	1

Client Sample ID: HA-5

Lab Sample ID: 890-8592-3

Date Collected: 08/06/25 13:45

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 03:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 03:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 03:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 03:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 03:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	08/08/25 09:11	08/09/25 03:44	1
1,4-Difluorobenzene (Surr)	120		70 - 130	08/08/25 09:11	08/09/25 03:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/09/25 03:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/12/25 03:16	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Client Sample ID: HA-5

Lab Sample ID: 890-8592-3

Date Collected: 08/06/25 13:45

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:14	08/12/25 03:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:14	08/12/25 03:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:14	08/12/25 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/08/25 11:14	08/12/25 03:16	1
o-Terphenyl	97		70 - 130				08/08/25 11:14	08/12/25 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		10.0		mg/Kg			08/12/25 18:32	1

Client Sample ID: HA-5

Lab Sample ID: 890-8592-4

Date Collected: 08/06/25 13:50

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 04:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 04:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 04:05	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/08/25 09:11	08/09/25 04:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 04:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/08/25 09:11	08/09/25 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				08/08/25 09:11	08/09/25 04:05	1
1,4-Difluorobenzene (Surr)	115		70 - 130				08/08/25 09:11	08/09/25 04:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/09/25 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/12/25 03:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:14	08/12/25 03:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:14	08/12/25 03:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:14	08/12/25 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				08/08/25 11:14	08/12/25 03:32	1
o-Terphenyl	107		70 - 130				08/08/25 11:14	08/12/25 03:32	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8592-1
SDG: Eddy County,NM

Client Sample ID: HA-5

Lab Sample ID: 890-8592-4

Date Collected: 08/06/25 13:50

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		10.1		mg/Kg			08/12/25 18:38	1

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

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-8592-1	HA-4	131 S1+	111
890-8592-2	HA-4	135 S1+	111
890-8592-3	HA-5	156 S1+	120
890-8592-4	HA-5	141 S1+	115
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-8592-1	HA-4	113	92
890-8592-2	HA-4	114	105
890-8592-3	HA-5	116	97
890-8592-4	HA-5	120	107
LCS 880-116229/2-A	Lab Control Sample	137 S1+	118
LCSD 880-116229/3-A	Lab Control Sample Dup	116	119
MB 880-116229/1-A	Method Blank	79	73

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	109		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116229/1-A
 Matrix: Solid
 Analysis Batch: 116387

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:11	08/11/25 20:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:11	08/11/25 20:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:11	08/11/25 20:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/08/25 11:11	08/11/25 20:58	1
o-Terphenyl	73		70 - 130	08/08/25 11:11	08/11/25 20:58	1

Lab Sample ID: LCS 880-116229/2-A
 Matrix: Solid
 Analysis Batch: 116387

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	930.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	820.2		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-116229/3-A
 Matrix: Solid
 Analysis Batch: 116387

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	921.5		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	849.5		mg/Kg		85	70 - 130	4	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

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

Lab Sample ID: LCSD 880-116229/3-A
 Matrix: Solid
 Analysis Batch: 116387

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116229

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	119		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116270/1-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 15:48	1

Lab Sample ID: LCS 880-116270/2-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-116270/3-A
 Matrix: Solid
 Analysis Batch: 116422

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

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

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Total/NA	Solid	8021B	116192
890-8592-2	HA-4	Total/NA	Solid	8021B	116192
890-8592-3	HA-5	Total/NA	Solid	8021B	116192
890-8592-4	HA-5	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Total/NA	Solid	5035	
890-8592-2	HA-4	Total/NA	Solid	5035	
890-8592-3	HA-5	Total/NA	Solid	5035	
890-8592-4	HA-5	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Total/NA	Solid	Total BTEX	
890-8592-2	HA-4	Total/NA	Solid	Total BTEX	
890-8592-3	HA-5	Total/NA	Solid	Total BTEX	
890-8592-4	HA-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Total/NA	Solid	8015NM Prep	
890-8592-2	HA-4	Total/NA	Solid	8015NM Prep	
890-8592-3	HA-5	Total/NA	Solid	8015NM Prep	
890-8592-4	HA-5	Total/NA	Solid	8015NM Prep	
MB 880-116229/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116229/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Total/NA	Solid	8015B NM	116229
890-8592-2	HA-4	Total/NA	Solid	8015B NM	116229
890-8592-3	HA-5	Total/NA	Solid	8015B NM	116229
890-8592-4	HA-5	Total/NA	Solid	8015B NM	116229
MB 880-116229/1-A	Method Blank	Total/NA	Solid	8015B NM	116229
LCS 880-116229/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116229
LCSD 880-116229/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116229

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8592-1
SDG: Eddy County,NM

GC Semi VOA

Analysis Batch: 116472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Total/NA	Solid	8015 NM	
890-8592-2	HA-4	Total/NA	Solid	8015 NM	
890-8592-3	HA-5	Total/NA	Solid	8015 NM	
890-8592-4	HA-5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Soluble	Solid	DI Leach	
890-8592-2	HA-4	Soluble	Solid	DI Leach	
890-8592-3	HA-5	Soluble	Solid	DI Leach	
890-8592-4	HA-5	Soluble	Solid	DI Leach	
MB 880-116270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 116422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8592-1	HA-4	Soluble	Solid	300.0	116270
890-8592-2	HA-4	Soluble	Solid	300.0	116270
890-8592-3	HA-5	Soluble	Solid	300.0	116270
890-8592-4	HA-5	Soluble	Solid	300.0	116270
MB 880-116270/1-A	Method Blank	Soluble	Solid	300.0	116270
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	300.0	116270
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116270

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8592-1
 SDG: Eddy County,NM

Client Sample ID: HA-4

Lab Sample ID: 890-8592-1

Date Collected: 08/06/25 13:35

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116331	08/09/25 03:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			116472	08/12/25 02:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116229	08/08/25 11:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116387	08/12/25 02:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:21	CS	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-8592-2

Date Collected: 08/06/25 13:40

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116331	08/09/25 03:24	SA	EET MID
Total/NA	Analysis	8015 NM		1			116472	08/12/25 03:01	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116229	08/08/25 11:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116387	08/12/25 03:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:26	CS	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-8592-3

Date Collected: 08/06/25 13:45

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116331	08/09/25 03:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			116472	08/12/25 03:16	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116229	08/08/25 11:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116387	08/12/25 03:16	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:32	CS	EET MID

Client Sample ID: HA-5

Lab Sample ID: 890-8592-4

Date Collected: 08/06/25 13:50

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116331	08/09/25 04:05	SA	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8592-1
SDG: Eddy County,NM

Client Sample ID: HA-5

Lab Sample ID: 890-8592-4

Date Collected: 08/06/25 13:50

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			116472	08/12/25 03:32	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116229	08/08/25 11:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116387	08/12/25 03:32	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:38	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8592-1
SDG: Eddy County,NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8592-1
SDG: Eddy County,NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8592-1
SDG: Eddy County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8592-1	HA-4	Solid	08/06/25 13:35	08/07/25 11:35	0.5
890-8592-2	HA-4	Solid	08/06/25 13:40	08/07/25 11:35	4
890-8592-3	HA-5	Solid	08/06/25 13:45	08/07/25 11:35	0.5
890-8592-4	HA-5	Solid	08/06/25 13:50	08/07/25 11:35	4

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Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: N/A
Shipping/Receiving: N/A
Company: Eurofins Environment Testing South Cent
Address: 1211 W. Florida Ave.
City: Midland
State: TX, Zip: 79701
Phone: 432-704-5440(Tel)
Email: N/A
Project Name: MAL-11-EXT
Site: N/A
Sample: N/A
Lab PM: Teel, Brianna
E-Mail: Brianna.Teel@et.eurofinsus.com
Accreditations Required (See note): NELAP - Texas
Carrier Tracking No(s): N/A
State of Origin: New Mexico
Page: Page 1 of 1
Job #: 890-8592-1
Preservation Codes:

Due Date Requested: 8/13/2025
TAT Requested (days): N/A
Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Metal, Semisolid, Organic, Aqueous)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
HA-4 (890-8592-1)	8/6/25	13:35	G	Solid		X	X	8015MOD_NM/8015NM_S_PrepTPH 8015	1	
HA-4 (890-8592-2)	8/6/25	13:40	G	Solid		X	X	8015MOD_Calc8015 Calc	1	
HA-5 (890-8592-3)	8/6/25	13:45	G	Solid		X	X	300_ORGFM_28D/DI_LEACHChloride	1	
HA-5 (890-8592-4)	8/6/25	13:50	G	Solid		X	X	8021B/5035FP_Calc(MOD) BTEX	1	
								Total_BTEX_GCV(MOD) Total BTEX		

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/semi/solids being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Special Instructions/OCC Requirements: Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 8/17 16:30 Company: _____ Received by: _____ Date/Time: 8/25 5:50 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 1.9/1.8 - TRS

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8592-1
SDG Number: Eddy County,NM

Login Number: 8592

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8592-1
SDG Number: Eddy County,NM

Login Number: 8592
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:33 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/14/2025 7:48:49 PM

JOB DESCRIPTION

MAL--11-EXT
 Eddy County, NM

JOB NUMBER

890-8593-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



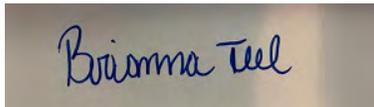
Eurofins Carlsbad

Job Notes

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

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

Authorization



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8/14/2025 7:48:49 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: MAL--11-EXT

Laboratory Job ID: 890-8593-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL--11-EXT

Job ID: 890-8593-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL--11-EXT

Job ID: 890-8593-1

Job ID: 890-8593-1

Eurofins Carlsbad

Job Narrative 890-8593-1

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 samples were received on 8/7/2025 11:33 AM. 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 -2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-6 (890-8593-2), HA-6 (890-8593-3) and (880-60972-A-17 MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-6 (890-8593-2) and HA-6 (890-8593-3). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-8593-1

Date Collected: 08/06/25 13:55

Matrix: Solid

Date Received: 08/07/25 11:33

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 05:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 05:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 05:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/25 09:11	08/09/25 05:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 05:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/25 09:11	08/09/25 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/08/25 09:11	08/09/25 05:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/08/25 09:11	08/09/25 05:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/09/25 05:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/14/25 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 17:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	08/07/25 13:50	08/14/25 17:54	1
o-Terphenyl	76		70 - 130	08/07/25 13:50	08/14/25 17:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		10.0		mg/Kg			08/09/25 20:13	1

Client Sample ID: HA-6

Lab Sample ID: 890-8593-2

Date Collected: 08/06/25 14:00

Matrix: Solid

Date Received: 08/07/25 11:33

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 06:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 06:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 06:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/25 09:11	08/09/25 06:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 06:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/25 09:11	08/09/25 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	08/08/25 09:11	08/09/25 06:15	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-8593-2

Date Collected: 08/06/25 14:00

Matrix: Solid

Date Received: 08/07/25 11:33

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	08/08/25 09:11	08/09/25 06:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/09/25 06:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/14/25 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/07/25 13:50	08/14/25 18:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/25 13:50	08/14/25 18:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/25 13:50	08/14/25 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	08/07/25 13:50	08/14/25 18:15	1
o-Terphenyl	68	S1-	70 - 130	08/07/25 13:50	08/14/25 18:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	929		10.1		mg/Kg			08/09/25 20:21	1

Client Sample ID: HA-6

Lab Sample ID: 890-8593-3

Date Collected: 08/06/25 14:05

Matrix: Solid

Date Received: 08/07/25 11:33

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 06:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 06:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 06:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 06:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:11	08/09/25 06:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/25 09:11	08/09/25 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/08/25 09:11	08/09/25 06:35	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/08/25 09:11	08/09/25 06:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/25 06:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/14/25 18:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-8593-3

Date Collected: 08/06/25 14:05

Matrix: Solid

Date Received: 08/07/25 11:33

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	08/07/25 13:50	08/14/25 18:36	1
o-Terphenyl	130		70 - 130	08/07/25 13:50	08/14/25 18:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		50.5		mg/Kg			08/09/25 20:28	5

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-8593-1	HA-6	108	100
890-8593-2	HA-6	138 S1+	111
890-8593-3	HA-6	136 S1+	114
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-8593-1	HA-6	76	76
890-8593-2	HA-6	68 S1-	68 S1-
890-8593-3	HA-6	134 S1+	130
LCS 880-116124/2-A	Lab Control Sample	127	113
LCSD 880-116124/3-A	Lab Control Sample Dup	121	105
MB 880-116124/1-A	Method Blank	133 S1+	126

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	109		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116124/1-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 08:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 08:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 08:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/07/25 13:50	08/14/25 08:57	1
o-Terphenyl	126		70 - 130	08/07/25 13:50	08/14/25 08:57	1

Lab Sample ID: LCS 880-116124/2-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	851.7		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.0		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-116124/3-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	813.2		mg/Kg		81	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	826.4		mg/Kg		83	70 - 130	7	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116124/3-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116124

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116146/1-A
 Matrix: Solid
 Analysis Batch: 116261

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/09/25 16:56	1

Lab Sample ID: LCS 880-116146/2-A
 Matrix: Solid
 Analysis Batch: 116261

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-116146/3-A
 Matrix: Solid
 Analysis Batch: 116261

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Chloride	250	239.8		mg/Kg		96	90 - 110	7	20

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Total/NA	Solid	8021B	116192
890-8593-2	HA-6	Total/NA	Solid	8021B	116192
890-8593-3	HA-6	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Total/NA	Solid	5035	
890-8593-2	HA-6	Total/NA	Solid	5035	
890-8593-3	HA-6	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Total/NA	Solid	Total BTEX	
890-8593-2	HA-6	Total/NA	Solid	Total BTEX	
890-8593-3	HA-6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Total/NA	Solid	8015NM Prep	
890-8593-2	HA-6	Total/NA	Solid	8015NM Prep	
890-8593-3	HA-6	Total/NA	Solid	8015NM Prep	
MB 880-116124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Total/NA	Solid	8015B NM	116124
890-8593-2	HA-6	Total/NA	Solid	8015B NM	116124
890-8593-3	HA-6	Total/NA	Solid	8015B NM	116124
MB 880-116124/1-A	Method Blank	Total/NA	Solid	8015B NM	116124
LCS 880-116124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116124
LCSD 880-116124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116124

Analysis Batch: 116727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Total/NA	Solid	8015 NM	
890-8593-2	HA-6	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 116727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-3	HA-6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Soluble	Solid	DI Leach	
890-8593-2	HA-6	Soluble	Solid	DI Leach	
890-8593-3	HA-6	Soluble	Solid	DI Leach	
MB 880-116146/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116146/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116146/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 116261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8593-1	HA-6	Soluble	Solid	300.0	116146
890-8593-2	HA-6	Soluble	Solid	300.0	116146
890-8593-3	HA-6	Soluble	Solid	300.0	116146
MB 880-116146/1-A	Method Blank	Soluble	Solid	300.0	116146
LCS 880-116146/2-A	Lab Control Sample	Soluble	Solid	300.0	116146
LCSD 880-116146/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116146

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-8593-1

Date Collected: 08/06/25 13:55

Matrix: Solid

Date Received: 08/07/25 11:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116332	08/09/25 05:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			116727	08/14/25 17:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116124	08/07/25 13:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116694	08/14/25 17:54	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116146	08/07/25 15:34	SMC	EET MID
Soluble	Analysis	300.0		1			116261	08/09/25 20:13	CS	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-8593-2

Date Collected: 08/06/25 14:00

Matrix: Solid

Date Received: 08/07/25 11:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116332	08/09/25 06:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			116727	08/14/25 18:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116124	08/07/25 13:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116694	08/14/25 18:15	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116146	08/07/25 15:34	SMC	EET MID
Soluble	Analysis	300.0		1			116261	08/09/25 20:21	CS	EET MID

Client Sample ID: HA-6

Lab Sample ID: 890-8593-3

Date Collected: 08/06/25 14:05

Matrix: Solid

Date Received: 08/07/25 11:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 06:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116332	08/09/25 06:35	SA	EET MID
Total/NA	Analysis	8015 NM		1			116727	08/14/25 18:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116124	08/07/25 13:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116694	08/14/25 18:36	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116146	08/07/25 15:34	SMC	EET MID
Soluble	Analysis	300.0		5			116261	08/09/25 20:28	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: MAL--11-EXT

Job ID: 890-8593-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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

Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL--11-EXT

Job ID: 890-8593-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL--11-EXT

Job ID: 890-8593-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8593-1	HA-6	Solid	08/06/25 13:55	08/07/25 11:33	0.5
890-8593-2	HA-6	Solid	08/06/25 14:00	08/07/25 11:33	2
890-8593-3	HA-6	Solid	08/06/25 14:05	08/07/25 11:33	3

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Environment Testing
Xenco

Chain of Custody

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

890-8593 Chain of Custody



www.xenco.com Page 1 of 1

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

Bill to: (if different)
 Company Name:
 Address:
 City, State ZIP:

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

Project Name:	MAL-11-EXT	Turn Around	Pres. Code	ANALYSIS REQUEST											Preservative Codes		
Project Number:	6932	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush													None: NO		
Project Location:	Eddy County, NM	Due Date:													Cool: Cool		
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm													HCL: HC		
CCMO #:															H ₂ SO ₄ : H ₂		
SAMPLE RECEIPT	Temp. Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												H ₃ PO ₄ : HP	
	Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:													NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No	N/A	Correction Factor:	-0.7												Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No	N/A	Temperature Reading:	-2.4												Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:	-2.2												NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride -NM	BTEX -NM	Hold	24 Hr Rush						Sample Comments
HA-6	S	8.6.25	13:55	0.5	Grab/	1	X	X	X								Incident Number
HA-6	S	8.6.25	14:00	2	Grab/	1	X	X	X								nAPP2521144311
HA-6	S	8.6.25	14:05	3	Grab/	1	X	X	X								

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	8/21/25			

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Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact:	N/A	Lab P/N:	Teel, Brianna	Carrier Tracking Note(s):	N/A	COG No:	890-5638-1
Shipping/Receiving:	N/A	E-Mail:	Brianna.Teel@et.eurofins.com	State of Origin:	New Mexico	Page:	Page 1 of 1
Company:	Eurofins Environment Testing South Cent	Accreditations Required (See note):	NEIAP - Texas	Job #:	890-8593-1	Preservation Codes:	

Address:	1211 W. Florida Ave.	Due Date Requested:	8/13/2025
City:	Midland	TAT Requested (days):	N/A
State, Zip:	TX, 79701		
Phone:	432-704-5440(Tel)	PO #:	N/A
Email:	N/A	WO #:	N/A
Project Name:	MAL-11-EXT	Project #:	88002337
Site:	N/A	SSOW#:	N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other, B=BTX, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
HA-6 (890-8593-1)	8/6/25	13:55	G	Solid	X	X	8015MOD_NM/8015NM_S_PrepTPH 8015	1	
HA-6 (890-8593-2)	8/6/25	14:00	G	Solid	X	X	8015MOD_Calc8015 Calc	1	
HA-6 (890-8593-3)	8/6/25	14:05	G	Solid	X	X	300_ORGFM_28D/DI_LEACHChloride	1	
					X	X	8021B/5035FP_Calc(MOD) BTEX	1	
					X	X	Total_BTEX_GCV(MOD) Total BTEX	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyst/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QCC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Burns</i>	8/7	1630	
Relinquished by:	Date/Time:	Company:	Received by:
			<i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
			<i>[Signature]</i>
Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No		1.9/1.8 -	TKR

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8593-1
SDG Number: Eddy County, NM

Login Number: 8593

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8593-1
SDG Number: Eddy County, NM

Login Number: 8593
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:33 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/11/2025 4:22:27 PM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8754-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



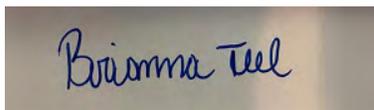
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
9/11/2025 4:22:27 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: MAL-11-EXT

Laboratory Job ID: 890-8754-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8754-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8754-1

Job ID: 890-8754-1

Eurofins Carlsbad

Job Narrative 890-8754-1

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 9/4/2025 8:35 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 -5.8°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: HA - 6 (890-8754-1).

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



Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

Client Sample ID: HA - 6
Date Collected: 09/03/25 13:25
Date Received: 09/04/25 08:35
Sample Depth: 8

Lab Sample ID: 890-8754-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/08/25 09:28	09/08/25 17:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/08/25 09:28	09/08/25 17:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/08/25 09:28	09/08/25 17:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/08/25 09:28	09/08/25 17:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/08/25 09:28	09/08/25 17:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/08/25 09:28	09/08/25 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/08/25 09:28	09/08/25 17:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/25 09:28	09/08/25 17:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/08/25 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/10/25 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/05/25 12:02	09/10/25 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/05/25 12:02	09/10/25 20:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/05/25 12:02	09/10/25 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/05/25 12:02	09/10/25 20:11	1
o-Terphenyl	104		70 - 130	09/05/25 12:02	09/10/25 20:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		9.98		mg/Kg			09/05/25 17:58	1

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8754-1	HA - 6	126	98
LCS 880-118400/1-A	Lab Control Sample	121	103
LCSD 880-118400/2-A	Lab Control Sample Dup	120	99
MB 880-118400/5-A	Method Blank	123	91
<hr/>			
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8754-1	HA - 6	106	104
LCS 880-118351/2-A	Lab Control Sample	114	113
LCSD 880-118351/3-A	Lab Control Sample Dup	113	110
MB 880-118351/1-A	Method Blank	92	94
<hr/>			
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-118400/5-A
 Matrix: Solid
 Analysis Batch: 118383

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/25 09:28	09/08/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/25 09:28	09/08/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/25 09:28	09/08/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/08/25 09:28	09/08/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/25 09:28	09/08/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/08/25 09:28	09/08/25 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/08/25 09:28	09/08/25 11:33	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/08/25 09:28	09/08/25 11:33	1

Lab Sample ID: LCS 880-118400/1-A
 Matrix: Solid
 Analysis Batch: 118383

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08427		mg/Kg		84	70 - 130
Toluene	0.100	0.08666		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09914		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1055		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-118400/2-A
 Matrix: Solid
 Analysis Batch: 118383

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118400

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09280		mg/Kg		93	70 - 130	10	35
Toluene	0.100	0.09570		mg/Kg		96	70 - 130	10	35
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2249		mg/Kg		112	70 - 130	10	35
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-118351/1-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	92		70 - 130	09/05/25 12:02	09/10/25 18:45	1
o-Terphenyl	94		70 - 130	09/05/25 12:02	09/10/25 18:45	1

Lab Sample ID: LCS 880-118351/2-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	996.2		mg/Kg		100	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	114		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-118351/3-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	1	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		70 - 130
o-Terphenyl	110		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118283/1-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			09/05/25 16:47	1

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-118283/2-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-118283/3-A
 Matrix: Solid
 Analysis Batch: 118317

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.5		mg/Kg		102	90 - 110	1	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXTJob ID: 890-8754-1
SDG: Eddy County, NM

GC VOA

Analysis Batch: 118383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Total/NA	Solid	8021B	118400
MB 880-118400/5-A	Method Blank	Total/NA	Solid	8021B	118400
LCS 880-118400/1-A	Lab Control Sample	Total/NA	Solid	8021B	118400
LCSD 880-118400/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118400

Prep Batch: 118400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Total/NA	Solid	5035	
MB 880-118400/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118400/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118400/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 118531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 118351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Total/NA	Solid	8015NM Prep	
MB 880-118351/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118351/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Total/NA	Solid	8015B NM	118351
MB 880-118351/1-A	Method Blank	Total/NA	Solid	8015B NM	118351
LCS 880-118351/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118351
LCSD 880-118351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118351

Analysis Batch: 118713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 118283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Soluble	Solid	DI Leach	
MB 880-118283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 118317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8754-1	HA - 6	Soluble	Solid	300.0	118283
MB 880-118283/1-A	Method Blank	Soluble	Solid	300.0	118283
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	300.0	118283
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118283

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Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

Client Sample ID: HA - 6
Date Collected: 09/03/25 13:25
Date Received: 09/04/25 08:35

Lab Sample ID: 890-8754-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	118400	09/08/25 09:28	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118383	09/08/25 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118531	09/08/25 17:55	SA	EET MID
Total/NA	Analysis	8015 NM		1			118713	09/10/25 20:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	118351	09/05/25 12:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118622	09/10/25 20:11	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		1			118317	09/05/25 17:58	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8754-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8754-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8754-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8754-1	HA - 6	Solid	09/03/25 13:25	09/04/25 08:35	8

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1298
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

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

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

Project Name: MAL-11-EXT
 Project Number: 6932
 Project Location: Eddy County, NM
 Sampler's Name: Santiago Giron
 CCWO #:
 Turn Around: Routine Rush
 Due Date: Routine TAT
 TAT starts the day received by the lab, if received by 4:30pm
 Wet Ice: (Yes) No

Temp Blank: (Yes) No
 Thermometer ID: TUNAC
 Cooler Custody Seals: Yes No
 Correction Factor:
 Sample Custody Seals: Yes No
 Temperature Reading: -6.0
 Total Containers: Corrected Temperature: -3.8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp # of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-6	S	9.3.25	13.25	8	Grab/ 1	X	X	X			Incident Number NAPP2521144311

ANALYSIS REQUEST

890-8754 Chain of Custody

Preservative Codes
 None: NO
 DI Water: H₂O
 Cool: Cool
 MeOH: Me
 HCL: HC
 HNO₃: HN
 H₂SO₄: H₂
 H₂PO₄: HP
 NaHSO₄: NABIS
 Na₂S₂O₃: NaSO₃
 Zn Acetate+NaOH: Zn
 NaOH+Ascorbic Acid: SAPC

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/14/835			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8754-1
SDG Number: Eddy County, NM

Login Number: 8754
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8754-1
SDG Number: Eddy County, NM

Login Number: 8754
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 09/05/25 11:20 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/15/2025 5:25:49 PM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8591-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



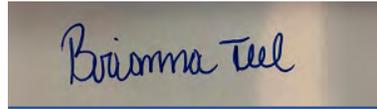
Eurofins Carlsbad

Job Notes

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

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

Authorization



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8/15/2025 5:25:49 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: MAL-11-EXT

Laboratory Job ID: 890-8591-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8591-1

Job ID: 890-8591-1

Eurofins Carlsbad

Job Narrative 890-8591-1

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 samples were received on 8/7/2025 11:35 AM. 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 -2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-7 (890-8591-1) and (880-60972-A-17 MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8591-1

Date Collected: 08/06/25 14:10

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 02:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 02:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 02:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/25 09:11	08/09/25 02:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:11	08/09/25 02:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/25 09:11	08/09/25 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	08/08/25 09:11	08/09/25 02:22	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/08/25 09:11	08/09/25 02:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/09/25 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/25 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 13:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 13:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/08/25 11:23	08/15/25 13:01	1
o-Terphenyl	104		70 - 130	08/08/25 11:23	08/15/25 13:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		9.94		mg/Kg			08/12/25 18:09	1

Client Sample ID: HA-7

Lab Sample ID: 890-8591-2

Date Collected: 08/06/25 14:15

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 02:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 02:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 02:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/25 09:11	08/09/25 02:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:11	08/09/25 02:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/25 09:11	08/09/25 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/08/25 09:11	08/09/25 02:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8591-2

Date Collected: 08/06/25 14:15

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/25 09:11	08/09/25 02:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/09/25 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/25 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 13:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 13:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/08/25 11:23	08/15/25 13:16	1
o-Terphenyl	100		70 - 130	08/08/25 11:23	08/15/25 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	943		9.96		mg/Kg			08/12/25 18:15	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8591-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-8591-1	HA-7	134 S1+	119
890-8591-2	HA-7	116	104
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-8591-1	HA-7	91	104
890-8591-2	HA-7	87	100
LCS 880-116232/2-A	Lab Control Sample	110	112
LCSD 880-116232/3-A	Lab Control Sample Dup	108	111
MB 880-116232/1-A	Method Blank	89	102

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	109		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116232/1-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/08/25 11:12	08/15/25 06:57	1
o-Terphenyl	102		70 - 130	08/08/25 11:12	08/15/25 06:57	1

Lab Sample ID: LCS 880-116232/2-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	993.7		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	984.9		mg/Kg		98	70 - 130	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116232/3-A
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116232

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116270/1-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 15:48	1

Lab Sample ID: LCS 880-116270/2-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-116270/3-A
 Matrix: Solid
 Analysis Batch: 116422

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

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

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Total/NA	Solid	8021B	116192
890-8591-2	HA-7	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Total/NA	Solid	5035	
890-8591-2	HA-7	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Total/NA	Solid	Total BTEX	
890-8591-2	HA-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Total/NA	Solid	8015NM Prep	
890-8591-2	HA-7	Total/NA	Solid	8015NM Prep	
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Total/NA	Solid	8015B NM	116232
890-8591-2	HA-7	Total/NA	Solid	8015B NM	116232
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015B NM	116232
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116232
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116232

Analysis Batch: 116825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Total/NA	Solid	8015 NM	
890-8591-2	HA-7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 116270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-2	HA-7	Soluble	Solid	DI Leach	
MB 880-116270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 116422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8591-1	HA-7	Soluble	Solid	300.0	116270
890-8591-2	HA-7	Soluble	Solid	300.0	116270
MB 880-116270/1-A	Method Blank	Soluble	Solid	300.0	116270
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	300.0	116270
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116270

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- 12
- 13
- 14

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8591-1
 SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8591-1

Date Collected: 08/06/25 14:10

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 02:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116330	08/09/25 02:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			116825	08/15/25 13:01	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 13:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:09	CS	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-8591-2

Date Collected: 08/06/25 14:15

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 02:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116330	08/09/25 02:43	SA	EET MID
Total/NA	Analysis	8015 NM		1			116825	08/15/25 13:16	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 13:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 18:15	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
Project/Site: MAL-11-EXT

Job ID: 890-8591-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8591-1
SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8591-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8591-1	HA-7	Solid	08/06/25 14:10	08/07/25 11:35	0.5
890-8591-2	HA-7	Solid	08/06/25 14:15	08/07/25 11:35	2

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- 12
- 13
- 14



Environment Testing
Xenoco

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

Chain of Custody



890-8591 Chain of Custody

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

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

Project Name: MAL-11-EXT
 Project Number: 6932
 Project Location: Eddy County, NM
 Sampler's Name: Santiago Giron
 CCWO #:
 Turn Around: Routine Rush
 Due Date:
 Routine TAT
 TAT starts the day received by the lab, if received by 4:30pm
 SAMPLE RECEIPT
 Temp. Blank: Yes No
 Well Ice: Yes No
 Samples Received Intact: Yes No
 Thermometer ID:
 Cooler Custody Seals: Yes No N/A
 Correction Factor:
 Sample Custody Seals: Yes No N/A
 Temperature Reading:
 Total Containers: Corrected Temperature:
 Parameters:
 Pres. Code:
 ANALYSIS REQUEST
 Preservative Codes:
 None: NO
 DI Water: H₂O
 Cool: Cool MeOH: Me
 HCL: HC HNO₃: HN
 H₂SO₄: H₂ NaOH: Na
 H₃PO₄: HP
 NaHSO₄: NABIS
 Na₂S₂O₅: NaSO₃
 Zn Acetate+NaOH: Zn
 NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	Sample Comments
HA-7	S	8.6.25	14:10	0.5	Grab/	1	X	X	X			Incident Number NAPP2521144311
HA-7	S	8.6.25	14:15	2	Grab/	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco 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 Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time
 0 [Signature] [Signature] 8/7/11 35
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8591-1
SDG Number: Eddy County, NM

Login Number: 8591
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8591-1
SDG Number: Eddy County, NM

Login Number: 8591
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:33 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8594-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



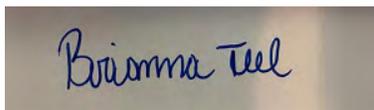
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Job Notes

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

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

Authorization



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

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Laboratory Job ID: 890-8594-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8594-1

Job ID: 890-8594-1

Eurofins Carlsbad

Job Narrative 890-8594-1

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 8/7/2025 11:35 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 -2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115975, 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-7 (890-8594-1) and (880-60972-A-17 MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-7 (890-8594-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8594-1

Date Collected: 08/06/25 14:20

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 06:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 06:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 06:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/25 09:11	08/09/25 06:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:11	08/09/25 06:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/25 09:11	08/09/25 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	08/08/25 09:11	08/09/25 06:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/08/25 09:11	08/09/25 06:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/09/25 06:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/14/25 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/07/25 13:50	08/14/25 18:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/25 13:50	08/14/25 18:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/25 13:50	08/14/25 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	08/07/25 13:50	08/14/25 18:57	1
o-Terphenyl	131	S1+	70 - 130	08/07/25 13:50	08/14/25 18:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	824		10.1		mg/Kg			08/09/25 20:36	1

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8594-1	HA-7	142 S1+	108
LCS 880-116192/1-A	Lab Control Sample	109	96
LCSD 880-116192/2-A	Lab Control Sample Dup	111	99
MB 880-115975/5-A	Method Blank	167 S1+	86
MB 880-116192/5-A	Method Blank	180 S1+	99

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8594-1	HA-7	134 S1+	131 S1+
LCS 880-116124/2-A	Lab Control Sample	127	113
LCSD 880-116124/3-A	Lab Control Sample Dup	121	105
MB 880-116124/1-A	Method Blank	133 S1+	126

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115975/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115975

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/25 17:00	08/08/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				08/06/25 17:00	08/08/25 12:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/06/25 17:00	08/08/25 12:54	1

Lab Sample ID: MB 880-116192/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/25 09:11	08/09/25 00:32	1

Lab Sample ID: LCS 880-116192/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09487		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2348		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	109		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116192/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.09812		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	2	35
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116124/1-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 08:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 08:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/25 13:50	08/14/25 08:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/07/25 13:50	08/14/25 08:57	1
o-Terphenyl	126		70 - 130	08/07/25 13:50	08/14/25 08:57	1

Lab Sample ID: LCS 880-116124/2-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	851.7		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.0		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-116124/3-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	813.2		mg/Kg		81	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	826.4		mg/Kg		83	70 - 130	7	20

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-116124/3-A
 Matrix: Solid
 Analysis Batch: 116694

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116124

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116146/1-A
 Matrix: Solid
 Analysis Batch: 116261

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			08/09/25 16:56	1

Lab Sample ID: LCS 880-116146/2-A
 Matrix: Solid
 Analysis Batch: 116261

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	250	258.2		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-116146/3-A
 Matrix: Solid
 Analysis Batch: 116261

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

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	250	239.8		mg/Kg		96	90 - 110	7	20

QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

GC VOA

Prep Batch: 115975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115975/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Total/NA	Solid	8021B	116192
MB 880-115975/5-A	Method Blank	Total/NA	Solid	8021B	115975
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	8021B	116192
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116192

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Total/NA	Solid	5035	
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 116333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Total/NA	Solid	8015NM Prep	
MB 880-116124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Total/NA	Solid	8015B NM	116124
MB 880-116124/1-A	Method Blank	Total/NA	Solid	8015B NM	116124
LCS 880-116124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116124
LCSD 880-116124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116124

Analysis Batch: 116728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Soluble	Solid	DI Leach	
MB 880-116146/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116146/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116146/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8594-1
SDG: Eddy County, NM

HPLC/IC

Analysis Batch: 116261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8594-1	HA-7	Soluble	Solid	300.0	116146
MB 880-116146/1-A	Method Blank	Soluble	Solid	300.0	116146
LCS 880-116146/2-A	Lab Control Sample	Soluble	Solid	300.0	116146
LCSD 880-116146/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116146

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Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8594-1
 SDG: Eddy County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-8594-1

Date Collected: 08/06/25 14:20

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116192	08/08/25 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116333	08/09/25 06:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			116728	08/14/25 18:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116124	08/07/25 13:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116694	08/14/25 18:57	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116146	08/07/25 15:34	SMC	EET MID
Soluble	Analysis	300.0		1			116261	08/09/25 20:36	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8594-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8594-1
SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8594-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8594-1	HA-7	Solid	08/06/25 14:20	08/07/25 11:35	4

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Environment Testing Xenco

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

Chain of Custody



890-8594 Chain of Custody

www.xenco.com

Page 1 of 1

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

Bill to: (if different)
 Company Name: Earth Systems R&R
 Address:
 City, State ZIP:

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

Project Name:	MAL-11-EXT	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NABSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Number:	6932	Due Date:	Routine TAT	Parameters		Sample Identification	HA-7	Sample Comments	Incident Number NAPP2521144311
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm		TPH -NM	X	Matrix	S	Date Sampled	8/6/25
Sampler's Name:	Santiago Giron	Corrected T temperature:	-2.2	Chloride-NM	X	Date Sampled	14:20	Time Sampled	14:20
CC/MO #:		Corrected T temperature:	-2.2	BTEX-NM	X	Depth (feet)	4	Grab/Comp	Grab/1
SAMPLE RECEIPT	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected T temperature:	-2.2	Hold		Grab/Comp	1	# of Cont	1
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected T temperature:	-2.2	24 Hr Rush		Grab/Comp		# of Cont	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected T temperature:	-2.2			Grab/Comp		# of Cont	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected T temperature:	-2.2			Grab/Comp		# of Cont	
Total Containers:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected T temperature:	-2.2			Grab/Comp		# of Cont	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	8/2/25			

Eurofins Carlsbad

Chain of Custody Record

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



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: N/A
Shipping/Receiving: N/A

Lab PM: Teel, Brianna
E-Mail: Brianna.Teel@et.eurofins.com

Carrier Tracking No(s): N/A
State of Origin: New Mexico

COC No: 890-5639-1
Page: Page 1 of 1

Company: Eurofins Environment Testing South Cent

Accreditations Required (See note): NELAP - Texas

Job #: 890-8594-1
Preservation Codes:

Address: 1211 W. Florida Ave.
City: Midland
State/zip: TX, 79701

Due Date Requested: 8/13/2025
TAT Requested (days): N/A

Preservation Codes:

Phone: 432-704-5440(Tel)
Email: N/A
Project Name: MAL-11-EXT
Project #: 88002337
Site: N/A
SSOW#: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Metal, Solid, Overstabil, Br-Tissue, A=H)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
HA-7 (890-8594-1)	8/6/25	14:20 Mountain	G	Solid	X	X	8015MOD_NM/8015NM_S_PrepTPH 8015 8015MOD_Calc/8015 Calc 300_ORGFM_28D/DI_LEACHChloride 8021B/5035FP_Calc(MOD) BTEX Total_BTEX_GCV(MOD) Total BTEX	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by: *[Signature]*

Date/Time: 8/7

Date/Time: 1630

Company

Received by:

Date/Time: 8/8/25

Company

Relinquished by:

Date/Time:

Company

Received by:

Date/Time:

Company

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

19/1.8 -1

TRD

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8594-1
SDG Number: Eddy County, NM

Login Number: 8594
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8594-1
SDG Number: Eddy County, NM

Login Number: 8594
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 08/08/25 10:50 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/11/2025 4:23:09 PM

JOB DESCRIPTION

MAL-11-EXT
 Eddy County, NM

JOB NUMBER

890-8755-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220

See page two for job notes and contact information.



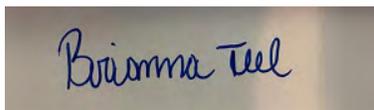
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
9/11/2025 4:23:09 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: MAL-11-EXT

Laboratory Job ID: 890-8755-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8755-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL-11-EXT

Job ID: 890-8755-1

Job ID: 890-8755-1

Eurofins Carlsbad

Job Narrative 890-8755-1

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 samples were received on 9/4/2025 8:35 AM. 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 -5.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 7 (890-8755-1) and HA - 7 (890-8755-2).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-118303 and analytical batch 880-118309 was outside the upper control limits.

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Carlsbad



Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXTJob ID: 890-8755-1
SDG: Eddy County, NM

Client Sample ID: HA - 7

Lab Sample ID: 890-8755-1

Date Collected: 09/03/25 13:30

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 19:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/05/25 17:00	09/05/25 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 19:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/05/25 17:00	09/05/25 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/05/25 17:00	09/05/25 19:43	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/05/25 17:00	09/05/25 19:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/05/25 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/10/25 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/05/25 12:02	09/10/25 20:25	1
o-Terphenyl	105		70 - 130	09/05/25 12:02	09/10/25 20:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	661		10.1		mg/Kg			09/05/25 18:04	1

Client Sample ID: HA - 7

Lab Sample ID: 890-8755-2

Date Collected: 09/03/25 13:35

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 20:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 20:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 20:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/05/25 17:00	09/05/25 20:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 17:00	09/05/25 20:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/05/25 17:00	09/05/25 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	09/05/25 17:00	09/05/25 20:04	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8755-1
 SDG: Eddy County, NM

Client Sample ID: HA - 7

Lab Sample ID: 890-8755-2

Date Collected: 09/03/25 13:35

Matrix: Solid

Date Received: 09/04/25 08:35

Sample Depth: 10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	09/05/25 17:00	09/05/25 20:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/05/25 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/10/25 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/05/25 12:02	09/10/25 20:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/05/25 12:02	09/10/25 20:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/05/25 12:02	09/10/25 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	09/05/25 12:02	09/10/25 20:39	1
o-Terphenyl	99		70 - 130	09/05/25 12:02	09/10/25 20:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	612		10.1		mg/Kg			09/05/25 18:09	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8755-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-60970-A-20-A MB	Method Blank	104	118
890-8755-1	HA - 7	98	108
890-8755-2	HA - 7	95	107
LCS 880-118303/1-A	Lab Control Sample	99	96
LCSD 880-118303/2-A	Lab Control Sample Dup	95	92
MB 880-118303/5-A	Method Blank	97	134 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-8755-1	HA - 7	105	105
890-8755-2	HA - 7	100	99
LCS 880-118351/2-A	Lab Control Sample	114	113
LCSD 880-118351/3-A	Lab Control Sample Dup	113	110
MB 880-118351/1-A	Method Blank	92	94

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8755-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-60970-A-20-A MB
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 16:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 16:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		70 - 130	09/05/25 07:48	09/05/25 16:33	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/05/25 07:48	09/05/25 16:33	1

Lab Sample ID: MB 880-118303/5-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/05/25 07:48	09/05/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/05/25 07:48	09/05/25 11:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		70 - 130	09/05/25 07:48	09/05/25 11:33	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	09/05/25 07:48	09/05/25 11:33	1

Lab Sample ID: LCS 880-118303/1-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1023		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09971		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09921		mg/Kg		99	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-118303/2-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118303

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

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8755-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118303/2-A
 Matrix: Solid
 Analysis Batch: 118309

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130	0	35
o-Xylene	0.100	0.09979		mg/Kg		100	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-118351/1-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/05/25 12:02	09/10/25 18:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	09/05/25 12:02	09/10/25 18:45	1
o-Terphenyl	94		70 - 130	09/05/25 12:02	09/10/25 18:45	1

Lab Sample ID: LCS 880-118351/2-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	985.4		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	996.2		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-118351/3-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	985.1		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8755-1
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-118351/3-A
 Matrix: Solid
 Analysis Batch: 118622

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 118351

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		70 - 130
o-Terphenyl	110		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118283/1-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			09/05/25 16:47	1

Lab Sample ID: LCS 880-118283/2-A
 Matrix: Solid
 Analysis Batch: 118317

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-118283/3-A
 Matrix: Solid
 Analysis Batch: 118317

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

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

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXTJob ID: 890-8755-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 118303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Total/NA	Solid	5035	
890-8755-2	HA - 7	Total/NA	Solid	5035	
880-60970-A-20-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-118303/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118303/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118303/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 118309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Total/NA	Solid	8021B	118303
890-8755-2	HA - 7	Total/NA	Solid	8021B	118303
880-60970-A-20-A MB	Method Blank	Total/NA	Solid	8021B	118303
MB 880-118303/5-A	Method Blank	Total/NA	Solid	8021B	118303
LCS 880-118303/1-A	Lab Control Sample	Total/NA	Solid	8021B	118303
LCSD 880-118303/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118303

Analysis Batch: 118451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Total/NA	Solid	Total BTEX	
890-8755-2	HA - 7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 118351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Total/NA	Solid	8015NM Prep	
890-8755-2	HA - 7	Total/NA	Solid	8015NM Prep	
MB 880-118351/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118351/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Total/NA	Solid	8015B NM	118351
890-8755-2	HA - 7	Total/NA	Solid	8015B NM	118351
MB 880-118351/1-A	Method Blank	Total/NA	Solid	8015B NM	118351
LCS 880-118351/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118351
LCSD 880-118351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118351

Analysis Batch: 118714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Total/NA	Solid	8015 NM	
890-8755-2	HA - 7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 118283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Soluble	Solid	DI Leach	
890-8755-2	HA - 7	Soluble	Solid	DI Leach	
MB 880-118283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8755-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 118283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 118317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8755-1	HA - 7	Soluble	Solid	300.0	118283
890-8755-2	HA - 7	Soluble	Solid	300.0	118283
MB 880-118283/1-A	Method Blank	Soluble	Solid	300.0	118283
LCS 880-118283/2-A	Lab Control Sample	Soluble	Solid	300.0	118283
LCSD 880-118283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118283

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Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL-11-EXT

Job ID: 890-8755-1
 SDG: Eddy County, NM

Client Sample ID: HA - 7
Date Collected: 09/03/25 13:30
Date Received: 09/04/25 08:35

Lab Sample ID: 890-8755-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	118303	09/05/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118309	09/05/25 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118451	09/05/25 19:43	SA	EET MID
Total/NA	Analysis	8015 NM		1			118714	09/10/25 20:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	118351	09/05/25 12:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118622	09/10/25 20:25	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		1			118317	09/05/25 18:04	CS	EET MID

Client Sample ID: HA - 7
Date Collected: 09/03/25 13:35
Date Received: 09/04/25 08:35

Lab Sample ID: 890-8755-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	118303	09/05/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118309	09/05/25 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118451	09/05/25 20:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			118714	09/10/25 20:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	118351	09/05/25 12:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118622	09/10/25 20:39	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	118283	09/04/25 15:36	SI	EET MID
Soluble	Analysis	300.0		1			118317	09/05/25 18:09	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: MAL-11-EXT

Job ID: 890-8755-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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- 11
- 12
- 13
- 14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8755-1
SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL-11-EXT

Job ID: 890-8755-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8755-1	HA - 7	Solid	09/03/25 13:30	09/04/25 08:35	8
890-8755-2	HA - 7	Solid	09/03/25 13:35	09/04/25 08:35	10

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8755-1
SDG Number: Eddy County, NM

Login Number: 8755
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8755-1
SDG Number: Eddy County, NM

Login Number: 8755
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 09/05/25 11:20 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/15/2025 5:24:25 PM

JOB DESCRIPTION

MAL - 11 - EXT
 Eddy County, NM

JOB NUMBER

890-8587-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



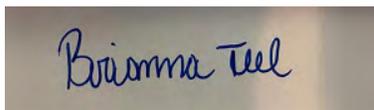
Eurofins Carlsbad

Job Notes

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

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

Authorization



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8/15/2025 5:24:25 PM

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

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Laboratory Job ID: 890-8587-1
SDG: Eddy County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
SDG: Eddy County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: MAL - 11 - EXT

Job ID: 890-8587-1

Job ID: 890-8587-1

Eurofins Carlsbad

Job Narrative 890-8587-1

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 samples were received on 8/7/2025 11:35 AM. 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 -2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 8 (890-8587-1), HA - 8 (890-8587-2), HA - 9 (890-8587-3), HA - 9 (890-8587-4), HA - 9 (890-8587-5), HA - 10 (890-8587-6), HA - 10 (890-8587-7), HA - 10 (890-8587-8), HA - 11 (890-8587-9) and HA - 11 (890-8587-10).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-116191 and 880-116192 and analytical batch 880-116181 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 8 (890-8587-1), HA - 9 (890-8587-4), HA - 9 (890-8587-5), HA - 10 (890-8587-6), HA - 10 (890-8587-7), HA - 10 (890-8587-8), HA - 11 (890-8587-9), HA - 11 (890-8587-10), (890-8587-A-1-A MS), (890-8587-A-1-B MSD) and (880-60972-A-17 MDLV). 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 880-116191 and analytical batch 880-116181 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-116181 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-8587-1

Date Collected: 08/07/25 09:00

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:37	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:37	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:37	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/08/25 09:08	08/09/25 12:37	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:37	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		08/08/25 09:08	08/09/25 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130	08/08/25 09:08	08/09/25 12:37	1
1,4-Difluorobenzene (Surr)	125		70 - 130	08/08/25 09:08	08/09/25 12:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/09/25 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/14/25 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:18	08/14/25 02:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:18	08/14/25 02:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:18	08/14/25 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/08/25 11:18	08/14/25 02:54	1
o-Terphenyl	76		70 - 130	08/08/25 11:18	08/14/25 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		10.1		mg/Kg			08/12/25 16:05	1

Client Sample ID: HA - 8

Lab Sample ID: 890-8587-2

Date Collected: 08/07/25 09:05

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 12:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 12:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 12:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/25 09:08	08/09/25 12:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 12:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/25 09:08	08/09/25 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/08/25 09:08	08/09/25 12:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-8587-2

Date Collected: 08/07/25 09:05

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/25 09:08	08/09/25 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/09/25 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/14/25 03:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:18	08/14/25 03:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:18	08/14/25 03:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:18	08/14/25 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/08/25 11:18	08/14/25 03:10	1
o-Terphenyl	78		70 - 130	08/08/25 11:18	08/14/25 03:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 16:22	1

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-3

Date Collected: 08/07/25 09:10

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 13:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 13:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 13:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/25 09:08	08/09/25 13:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 13:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/25 09:08	08/09/25 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/08/25 09:08	08/09/25 13:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/25 09:08	08/09/25 13:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/09/25 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/14/25 03:26	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-3

Date Collected: 08/07/25 09:10

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:18	08/14/25 03:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:18	08/14/25 03:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:18	08/14/25 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/08/25 11:18	08/14/25 03:26	1
o-Terphenyl	77		70 - 130				08/08/25 11:18	08/14/25 03:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			08/12/25 16:27	1

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-4

Date Collected: 08/07/25 09:15

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 13:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 13:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 13:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/25 09:08	08/09/25 13:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 13:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/25 09:08	08/09/25 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				08/08/25 09:08	08/09/25 13:38	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/08/25 09:08	08/09/25 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/25 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/25 08:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 08:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 08:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 08:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/08/25 11:23	08/15/25 08:57	1
o-Terphenyl	100		70 - 130				08/08/25 11:23	08/15/25 08:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-4

Date Collected: 08/07/25 09:15

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		10.0		mg/Kg			08/12/25 16:33	1

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-5

Date Collected: 08/07/25 09:20

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 13:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 13:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 13:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/25 09:08	08/09/25 13:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 13:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/25 09:08	08/09/25 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	08/08/25 09:08	08/09/25 13:59	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/08/25 09:08	08/09/25 13:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/09/25 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/25 09:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 09:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 09:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 09:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/08/25 11:23	08/15/25 09:42	1
o-Terphenyl	103		70 - 130	08/08/25 11:23	08/15/25 09:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.0		9.98		mg/Kg			08/12/25 16:39	1

Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-6

Date Collected: 08/07/25 09:25

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 14:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 14:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 14:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/25 09:08	08/09/25 14:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/25 09:08	08/09/25 14:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/25 09:08	08/09/25 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	08/08/25 09:08	08/09/25 14:19	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/25 09:08	08/09/25 14:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/09/25 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/25 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 09:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 09:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/08/25 11:23	08/15/25 09:57	1
o-Terphenyl	100		70 - 130	08/08/25 11:23	08/15/25 09:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8		9.96		mg/Kg			08/12/25 16:56	1

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-7

Date Collected: 08/07/25 09:30

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 14:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 14:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 14:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/25 09:08	08/09/25 14:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/25 09:08	08/09/25 14:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/25 09:08	08/09/25 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	08/08/25 09:08	08/09/25 14:40	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-7

Date Collected: 08/07/25 09:30

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130	08/08/25 09:08	08/09/25 14:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/09/25 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/25 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 10:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 10:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/08/25 11:23	08/15/25 10:12	1
o-Terphenyl	102		70 - 130	08/08/25 11:23	08/15/25 10:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.8		9.94		mg/Kg			08/12/25 17:01	1

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-8

Date Collected: 08/07/25 09:35

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 15:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 15:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 15:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/25 09:08	08/09/25 15:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/25 09:08	08/09/25 15:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/25 09:08	08/09/25 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/08/25 09:08	08/09/25 15:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/25 09:08	08/09/25 15:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/25 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/25 10:27	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-8

Date Collected: 08/07/25 09:35

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 10:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 10:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:23	08/15/25 10:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/08/25 11:23	08/15/25 10:27	1
o-Terphenyl	101		70 - 130				08/08/25 11:23	08/15/25 10:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		9.92		mg/Kg			08/12/25 17:07	1

Client Sample ID: HA - 11

Lab Sample ID: 890-8587-9

Date Collected: 08/07/25 09:40

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 15:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 15:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 15:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:08	08/09/25 15:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 15:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:08	08/09/25 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				08/08/25 09:08	08/09/25 15:21	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/08/25 09:08	08/09/25 15:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/09/25 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/25 10:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 10:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 10:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/25 11:23	08/15/25 10:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/08/25 11:23	08/15/25 10:42	1
o-Terphenyl	100		70 - 130				08/08/25 11:23	08/15/25 10:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 11

Lab Sample ID: 890-8587-9

Date Collected: 08/07/25 09:40

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			08/12/25 17:13	1

Client Sample ID: HA - 11

Lab Sample ID: 890-8587-10

Date Collected: 08/07/25 09:45

Matrix: Solid

Date Received: 08/07/25 11:35

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 15:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 15:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 15:41	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/08/25 09:08	08/09/25 15:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/25 09:08	08/09/25 15:41	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/08/25 09:08	08/09/25 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				08/08/25 09:08	08/09/25 15:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/08/25 09:08	08/09/25 15:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/09/25 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/25 10:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 10:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 10:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/25 11:23	08/15/25 10:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/08/25 11:23	08/15/25 10:57	1
o-Terphenyl	95		70 - 130				08/08/25 11:23	08/15/25 10:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			08/12/25 17:18	1

Surrogate Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-8587-1	HA - 8	197 S1+	125
890-8587-1 MS	HA - 8	135 S1+	96
890-8587-1 MSD	HA - 8	218 S1+	124
890-8587-2	HA - 8	125	104
890-8587-3	HA - 9	119	104
890-8587-4	HA - 9	136 S1+	109
890-8587-5	HA - 9	141 S1+	110
890-8587-6	HA - 10	137 S1+	104
890-8587-7	HA - 10	150 S1+	110
890-8587-8	HA - 10	147 S1+	104
890-8587-9	HA - 11	137 S1+	107
890-8587-10	HA - 11	145 S1+	108
LCS 880-116191/1-A	Lab Control Sample	116	101
LCSD 880-116191/2-A	Lab Control Sample Dup	118	94
MB 880-116191/5-A	Method Blank	156 S1+	82
MB 880-116192/5-A	Method Blank	180 S1+	99

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-8587-1	HA - 8	78	76
890-8587-2	HA - 8	81	78
890-8587-3	HA - 9	78	77
890-8587-4	HA - 9	91	100
890-8587-4 MS	HA - 9	102	101
890-8587-4 MSD	HA - 9	102	100
890-8587-5	HA - 9	92	103
890-8587-6	HA - 10	92	100
890-8587-7	HA - 10	92	102
890-8587-8	HA - 10	91	101
890-8587-9	HA - 11	91	100
890-8587-10	HA - 11	87	95
LCS 880-116231/2-A	Lab Control Sample	104	118
LCS 880-116232/2-A	Lab Control Sample	110	112
LCSD 880-116231/3-A	Lab Control Sample Dup	125	118
LCSD 880-116232/3-A	Lab Control Sample Dup	108	111
MB 880-116231/1-A	Method Blank	118	120
MB 880-116232/1-A	Method Blank	89	102

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116191/5-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:08	08/09/25 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:08	08/09/25 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:08	08/09/25 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	08/08/25 09:08	08/09/25 12:08	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/08/25 09:08	08/09/25 12:08	1

Lab Sample ID: LCS 880-116191/1-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1081		mg/Kg		108	70 - 130
Toluene	0.100	0.1034		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2332		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1225		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-116191/2-A
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1025		mg/Kg		102	70 - 130	5	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.09993		mg/Kg		100	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2388		mg/Kg		119	70 - 130	2	35
o-Xylene	0.100	0.1302		mg/Kg		130	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-8587-1 MS
 Matrix: Solid
 Analysis Batch: 116181

Client Sample ID: HA - 8
 Prep Type: Total/NA
 Prep Batch: 116191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08610		mg/Kg		86	70 - 130
Toluene	<0.00200	U F1	0.100	0.07822		mg/Kg		78	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8587-1 MS

Client Sample ID: HA - 8

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116181

Prep Batch: 116191

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U F1	0.100	0.06078	F1	mg/Kg		59	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.2201		mg/Kg		110	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.1269		mg/Kg		127	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8587-1 MSD

Client Sample ID: HA - 8

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116181

Prep Batch: 116191

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.100	0.09150		mg/Kg		91	70 - 130	6	35
Toluene	<0.00200	U F1	0.100	0.05887	F1	mg/Kg		59	70 - 130	28	35
Ethylbenzene	<0.00200	U F1	0.100	0.06096	F1	mg/Kg		59	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.2898	F1	mg/Kg		145	70 - 130	27	35
o-Xylene	<0.00200	U F1	0.100	0.1781	F1	mg/Kg		178	70 - 130	34	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	218	S1+	70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: MB 880-116192/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116181

Prep Batch: 116192

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/25 09:11	08/09/25 00:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/25 09:11	08/09/25 00:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130	08/08/25 09:11	08/09/25 00:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/08/25 09:11	08/09/25 00:32	1

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

Lab Sample ID: MB 880-116231/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116617

Prep Batch: 116231

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/13/25 20:42	1

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-116231/1-A
Matrix: Solid
Analysis Batch: 116617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116231

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/13/25 20:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/13/25 20:42	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac			
%Recovery	Qualifier								
1-Chlorooctane	118		70 - 130	08/08/25 11:12	08/13/25 20:42	1			
o-Terphenyl	120		70 - 130	08/08/25 11:12	08/13/25 20:42	1			

Lab Sample ID: LCS 880-116231/2-A
Matrix: Solid
Analysis Batch: 116617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116231

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1012		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130
Surrogate	LCS LCS		Limits				
%Recovery	Qualifier						
1-Chlorooctane	104		70 - 130				
o-Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-116231/3-A
Matrix: Solid
Analysis Batch: 116617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116231

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	998.5		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	943.5		mg/Kg		94	70 - 130	7	20
Surrogate	LCSD LCSD		Limits						
%Recovery	Qualifier								
1-Chlorooctane	125		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: MB 880-116232/1-A
Matrix: Solid
Analysis Batch: 116740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116232

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/25 11:12	08/15/25 06:57	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac			
%Recovery	Qualifier								
1-Chlorooctane	89		70 - 130	08/08/25 11:12	08/15/25 06:57	1			

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QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-116232/1-A
Matrix: Solid
Analysis Batch: 116740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116232

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	102		70 - 130	08/08/25 11:12	08/15/25 06:57	1

Lab Sample ID: LCS 880-116232/2-A
Matrix: Solid
Analysis Batch: 116740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	993.7		mg/Kg		99	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	110		70 - 130
<i>o</i> -Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-116232/3-A
Matrix: Solid
Analysis Batch: 116740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	1000	984.9		mg/Kg		98	70 - 130	1	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	108		70 - 130
<i>o</i> -Terphenyl	111		70 - 130

Lab Sample ID: 890-8587-4 MS
Matrix: Solid
Analysis Batch: 116740

Client Sample ID: HA - 9
Prep Type: Total/NA
Prep Batch: 116232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1047		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	938.8		mg/Kg		94	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	102		70 - 130
<i>o</i> -Terphenyl	101		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8587-4 MSD
 Matrix: Solid
 Analysis Batch: 116740

Client Sample ID: HA - 9
 Prep Type: Total/NA
 Prep Batch: 116232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1050		mg/Kg		105	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	896.8		mg/Kg		90	70 - 130	5	20
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
1-Chlorooctane	102			70 - 130							
o-Terphenyl	100			70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116270/1-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			08/12/25 15:48	1

Lab Sample ID: LCS 880-116270/2-A
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	230.5		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-116270/3-A
 Matrix: Solid
 Analysis Batch: 116422

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	231.6		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-8587-1 MS
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: HA - 8
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.6		252	248.0		mg/Kg		94	90 - 110

Lab Sample ID: 890-8587-1 MSD
 Matrix: Solid
 Analysis Batch: 116422

Client Sample ID: HA - 8
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.6		252	248.9		mg/Kg		95	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

GC VOA

Analysis Batch: 116181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Total/NA	Solid	8021B	116191
890-8587-2	HA - 8	Total/NA	Solid	8021B	116191
890-8587-3	HA - 9	Total/NA	Solid	8021B	116191
890-8587-4	HA - 9	Total/NA	Solid	8021B	116191
890-8587-5	HA - 9	Total/NA	Solid	8021B	116191
890-8587-6	HA - 10	Total/NA	Solid	8021B	116191
890-8587-7	HA - 10	Total/NA	Solid	8021B	116191
890-8587-8	HA - 10	Total/NA	Solid	8021B	116191
890-8587-9	HA - 11	Total/NA	Solid	8021B	116191
890-8587-10	HA - 11	Total/NA	Solid	8021B	116191
MB 880-116191/5-A	Method Blank	Total/NA	Solid	8021B	116191
MB 880-116192/5-A	Method Blank	Total/NA	Solid	8021B	116192
LCS 880-116191/1-A	Lab Control Sample	Total/NA	Solid	8021B	116191
LCSD 880-116191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116191
890-8587-1 MS	HA - 8	Total/NA	Solid	8021B	116191
890-8587-1 MSD	HA - 8	Total/NA	Solid	8021B	116191

Prep Batch: 116191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Total/NA	Solid	5035	
890-8587-2	HA - 8	Total/NA	Solid	5035	
890-8587-3	HA - 9	Total/NA	Solid	5035	
890-8587-4	HA - 9	Total/NA	Solid	5035	
890-8587-5	HA - 9	Total/NA	Solid	5035	
890-8587-6	HA - 10	Total/NA	Solid	5035	
890-8587-7	HA - 10	Total/NA	Solid	5035	
890-8587-8	HA - 10	Total/NA	Solid	5035	
890-8587-9	HA - 11	Total/NA	Solid	5035	
890-8587-10	HA - 11	Total/NA	Solid	5035	
MB 880-116191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116191/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8587-1 MS	HA - 8	Total/NA	Solid	5035	
890-8587-1 MSD	HA - 8	Total/NA	Solid	5035	

Prep Batch: 116192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-116192/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Total/NA	Solid	Total BTEX	
890-8587-2	HA - 8	Total/NA	Solid	Total BTEX	
890-8587-3	HA - 9	Total/NA	Solid	Total BTEX	
890-8587-4	HA - 9	Total/NA	Solid	Total BTEX	
890-8587-5	HA - 9	Total/NA	Solid	Total BTEX	
890-8587-6	HA - 10	Total/NA	Solid	Total BTEX	
890-8587-7	HA - 10	Total/NA	Solid	Total BTEX	
890-8587-8	HA - 10	Total/NA	Solid	Total BTEX	
890-8587-9	HA - 11	Total/NA	Solid	Total BTEX	
890-8587-10	HA - 11	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

GC Semi VOA

Prep Batch: 116231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Total/NA	Solid	8015NM Prep	
890-8587-2	HA - 8	Total/NA	Solid	8015NM Prep	
890-8587-3	HA - 9	Total/NA	Solid	8015NM Prep	
MB 880-116231/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116231/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 116232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-4	HA - 9	Total/NA	Solid	8015NM Prep	
890-8587-5	HA - 9	Total/NA	Solid	8015NM Prep	
890-8587-6	HA - 10	Total/NA	Solid	8015NM Prep	
890-8587-7	HA - 10	Total/NA	Solid	8015NM Prep	
890-8587-8	HA - 10	Total/NA	Solid	8015NM Prep	
890-8587-9	HA - 11	Total/NA	Solid	8015NM Prep	
890-8587-10	HA - 11	Total/NA	Solid	8015NM Prep	
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8587-4 MS	HA - 9	Total/NA	Solid	8015NM Prep	
890-8587-4 MSD	HA - 9	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Total/NA	Solid	8015B NM	116231
890-8587-2	HA - 8	Total/NA	Solid	8015B NM	116231
890-8587-3	HA - 9	Total/NA	Solid	8015B NM	116231
MB 880-116231/1-A	Method Blank	Total/NA	Solid	8015B NM	116231
LCS 880-116231/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116231
LCSD 880-116231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116231

Analysis Batch: 116687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Total/NA	Solid	8015 NM	
890-8587-2	HA - 8	Total/NA	Solid	8015 NM	
890-8587-3	HA - 9	Total/NA	Solid	8015 NM	
890-8587-4	HA - 9	Total/NA	Solid	8015 NM	
890-8587-5	HA - 9	Total/NA	Solid	8015 NM	
890-8587-6	HA - 10	Total/NA	Solid	8015 NM	
890-8587-7	HA - 10	Total/NA	Solid	8015 NM	
890-8587-8	HA - 10	Total/NA	Solid	8015 NM	
890-8587-9	HA - 11	Total/NA	Solid	8015 NM	
890-8587-10	HA - 11	Total/NA	Solid	8015 NM	

Analysis Batch: 116740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-4	HA - 9	Total/NA	Solid	8015B NM	116232
890-8587-5	HA - 9	Total/NA	Solid	8015B NM	116232
890-8587-6	HA - 10	Total/NA	Solid	8015B NM	116232
890-8587-7	HA - 10	Total/NA	Solid	8015B NM	116232
890-8587-8	HA - 10	Total/NA	Solid	8015B NM	116232

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QC Association Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 116740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-9	HA - 11	Total/NA	Solid	8015B NM	116232
890-8587-10	HA - 11	Total/NA	Solid	8015B NM	116232
MB 880-116232/1-A	Method Blank	Total/NA	Solid	8015B NM	116232
LCS 880-116232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116232
LCSD 880-116232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116232
890-8587-4 MS	HA - 9	Total/NA	Solid	8015B NM	116232
890-8587-4 MSD	HA - 9	Total/NA	Solid	8015B NM	116232

HPLC/IC

Leach Batch: 116270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Soluble	Solid	DI Leach	
890-8587-2	HA - 8	Soluble	Solid	DI Leach	
890-8587-3	HA - 9	Soluble	Solid	DI Leach	
890-8587-4	HA - 9	Soluble	Solid	DI Leach	
890-8587-5	HA - 9	Soluble	Solid	DI Leach	
890-8587-6	HA - 10	Soluble	Solid	DI Leach	
890-8587-7	HA - 10	Soluble	Solid	DI Leach	
890-8587-8	HA - 10	Soluble	Solid	DI Leach	
890-8587-9	HA - 11	Soluble	Solid	DI Leach	
890-8587-10	HA - 11	Soluble	Solid	DI Leach	
MB 880-116270/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8587-1 MS	HA - 8	Soluble	Solid	DI Leach	
890-8587-1 MSD	HA - 8	Soluble	Solid	DI Leach	

Analysis Batch: 116422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8587-1	HA - 8	Soluble	Solid	300.0	116270
890-8587-2	HA - 8	Soluble	Solid	300.0	116270
890-8587-3	HA - 9	Soluble	Solid	300.0	116270
890-8587-4	HA - 9	Soluble	Solid	300.0	116270
890-8587-5	HA - 9	Soluble	Solid	300.0	116270
890-8587-6	HA - 10	Soluble	Solid	300.0	116270
890-8587-7	HA - 10	Soluble	Solid	300.0	116270
890-8587-8	HA - 10	Soluble	Solid	300.0	116270
890-8587-9	HA - 11	Soluble	Solid	300.0	116270
890-8587-10	HA - 11	Soluble	Solid	300.0	116270
MB 880-116270/1-A	Method Blank	Soluble	Solid	300.0	116270
LCS 880-116270/2-A	Lab Control Sample	Soluble	Solid	300.0	116270
LCSD 880-116270/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116270
890-8587-1 MS	HA - 8	Soluble	Solid	300.0	116270
890-8587-1 MSD	HA - 8	Soluble	Solid	300.0	116270

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-8587-1

Date Collected: 08/07/25 09:00

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 12:37	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/14/25 02:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116231	08/08/25 11:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116617	08/14/25 02:54	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 16:05	CS	EET MID

Client Sample ID: HA - 8

Lab Sample ID: 890-8587-2

Date Collected: 08/07/25 09:05

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 12:58	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/14/25 03:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116231	08/08/25 11:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116617	08/14/25 03:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 16:22	CS	EET MID

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-3

Date Collected: 08/07/25 09:10

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 13:18	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/14/25 03:26	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116231	08/08/25 11:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116617	08/14/25 03:26	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 16:27	CS	EET MID

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-4

Date Collected: 08/07/25 09:15

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 13:38	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-4

Date Collected: 08/07/25 09:15

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			116687	08/15/25 08:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 08:57	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 16:33	CS	EET MID

Client Sample ID: HA - 9

Lab Sample ID: 890-8587-5

Date Collected: 08/07/25 09:20

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 13:59	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/15/25 09:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 09:42	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 16:39	CS	EET MID

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-6

Date Collected: 08/07/25 09:25

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 14:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/15/25 09:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 09:57	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 16:56	CS	EET MID

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-7

Date Collected: 08/07/25 09:30

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 14:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/15/25 10:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 10:12	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-7

Date Collected: 08/07/25 09:30

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:01	CS	EET MID

Client Sample ID: HA - 10

Lab Sample ID: 890-8587-8

Date Collected: 08/07/25 09:35

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 15:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/15/25 10:27	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 10:27	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:07	CS	EET MID

Client Sample ID: HA - 11

Lab Sample ID: 890-8587-9

Date Collected: 08/07/25 09:40

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 15:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 15:21	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/15/25 10:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 10:42	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:13	CS	EET MID

Client Sample ID: HA - 11

Lab Sample ID: 890-8587-10

Date Collected: 08/07/25 09:45

Matrix: Solid

Date Received: 08/07/25 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116191	08/08/25 09:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116181	08/09/25 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116335	08/09/25 15:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			116687	08/15/25 10:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116232	08/08/25 11:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116740	08/15/25 10:57	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116270	08/08/25 15:02	SMC	EET MID
Soluble	Analysis	300.0		1			116422	08/12/25 17:18	CS	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
SDG: Eddy County, NM

Laboratory References:

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date												
Texas	NELAP	T104704400	06-30-26												
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8015 NM</td> <td></td> <td>Solid</td> <td>Total TPH</td> </tr> <tr> <td>Total BTEX</td> <td></td> <td>Solid</td> <td>Total BTEX</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8015 NM		Solid	Total TPH	Total BTEX		Solid	Total BTEX
Analysis Method	Prep Method	Matrix	Analyte												
8015 NM		Solid	Total TPH												
Total BTEX		Solid	Total BTEX												

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Method Summary

Client: Earth Systems Response and Restoration
 Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
 SDG: Eddy County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: MAL - 11 - EXT

Job ID: 890-8587-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8587-1	HA - 8	Solid	08/07/25 09:00	08/07/25 11:35	0.5
890-8587-2	HA - 8	Solid	08/07/25 09:05	08/07/25 11:35	4
890-8587-3	HA - 9	Solid	08/07/25 09:10	08/07/25 11:35	0.5
890-8587-4	HA - 9	Solid	08/07/25 09:15	08/07/25 11:35	4
890-8587-5	HA - 9	Solid	08/07/25 09:20	08/07/25 11:35	6
890-8587-6	HA - 10	Solid	08/07/25 09:25	08/07/25 11:35	0.5
890-8587-7	HA - 10	Solid	08/07/25 09:30	08/07/25 11:35	4
890-8587-8	HA - 10	Solid	08/07/25 09:35	08/07/25 11:35	6
890-8587-9	HA - 11	Solid	08/07/25 09:40	08/07/25 11:35	0.5
890-8587-10	HA - 11	Solid	08/07/25 09:45	08/07/25 11:35	4

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: **Teel, Brianna** Lab PM: **Teel, Brianna** Carrier Tracking No(s): **N/A** COC No: **890-5632-1**

Shipping/Receiving: **N/A** Phone: **N/A** E-Mail: **Brianna.Teel@eurofins.com** State of Origin: **New Mexico** Page: **Page 1 of 2**

Company: **Eurofins Environment Testing South Cent** Address: **1211 W. Florida Ave.** Due Date Requested: **8/13/2025** TAT Requested (days): **N/A** Analysis Requested: **NE LAP - Texas** Accreditation Required (See note): **NE LAP - Texas** Job #: **890-8587-1** Preservation Codes: **890-8587-1**

City: **Midland** State: **Tx** Zip: **79701** PO #: **N/A** W/O #: **N/A** Project #: **88002337** SSOV#: **N/A**

Phone: **432-704-5440(Tel)** Email: **N/A** Project Name: **MAL - 11 - EXT** Site: **N/A**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Metal, Semi, Organic, Aque)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Pre	300_ORGFM_28D/DI_LEACH	8021B/5035FP_Calc(MOD)	Total Number of containers	Special Instructions/Note:
HA - 8 (890-8587-1)	8/7/25	09:00	G	Solid	X	X	X	X	X	X	1	
HA - 8 (890-8587-2)	8/7/25	09:05	G	Solid	X	X	X	X	X	X	1	
HA - 9 (890-8587-3)	8/7/25	08:10	G	Solid	X	X	X	X	X	X	1	
HA - 9 (890-8587-4)	8/7/25	08:15	G	Solid	X	X	X	X	X	X	1	
HA - 9 (890-8587-5)	8/7/25	09:20	G	Solid	X	X	X	X	X	X	1	
HA - 10 (890-8587-6)	8/7/25	09:25	G	Solid	X	X	X	X	X	X	1	
HA - 10 (890-8587-7)	8/7/25	09:30	G	Solid	X	X	X	X	X	X	1	
HA - 10 (890-8587-8)	8/7/25	09:35	G	Solid	X	X	X	X	X	X	1	
HA - 11 (890-8587-9)	8/7/25	09:40	G	Solid	X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unclassified

Deliverable Requested: **I, II, III, IV, Other (Specify)** Primary Deliverable Rank: **2**

Empty Kit Relinquished by: _____ Date: _____

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Relinquished by: **Johnson** Date/Time: **8/7/25 16:30** Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: **Δ Yes Δ No** Custody Seal No.: _____

Received by: **[Signature]** Date/Time: **8/14/25 8:00** Company: _____

Received by: **[Signature]** Date/Time: **8/14/25 8:00** Company: _____

Cooler Temperature(s) °C and Other Remarks: **19/1.8 = 1 TRS**

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8587-1
SDG Number: Eddy County, NM

Login Number: 8587
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8587-1
SDG Number: Eddy County, NM

Login Number: 8587
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/08/25 09:39 AM

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

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Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E510145

Job Number: 24064-0001

Received: 10/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/21/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 10/21/25

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E510145
Date Received: 10/15/2025 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/15/2025 8:00:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/25 09:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1 8'	E510145-01A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
CS-2 8'	E510145-02A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
CS-3 8'	E510145-03A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
CS-4 12'	E510145-04A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
CS-5 12'	E510145-05A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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CS-1 8'

E510145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		122 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2542061
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		91.3 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	227	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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CS-2 8'

E510145-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		122 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2542061
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		93.5 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	72.7	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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CS-3 8'

E510145-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		123 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2542061
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		93.8 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	190	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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CS-4 12'

E510145-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2542061
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		90.9 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	102	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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CS-5 12'

E510145-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/16/25	
Toluene	ND	0.0250	1	10/15/25	10/16/25	
o-Xylene	ND	0.0250	1	10/15/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		117 %	70-130	10/15/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	10/15/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2542061
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	154	20.0	1	10/16/25	10/16/25	



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542067-BLK1)

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.36		8.00		117	70-130			

LCS (2542067-BS1)

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	4.39	0.0250	5.00		87.7	70-130			
Ethylbenzene	4.34	0.0250	5.00		86.8	70-130			
Toluene	4.36	0.0250	5.00		87.1	70-130			
o-Xylene	4.34	0.0250	5.00		86.8	70-130			
p,m-Xylene	8.78	0.0500	10.0		87.8	70-130			
Total Xylenes	13.1	0.0250	15.0		87.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.43		8.00		118	70-130			

Matrix Spike (2542067-MS1)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	4.01	0.0250	5.00	ND	80.1	70-130			
Ethylbenzene	3.95	0.0250	5.00	ND	79.0	70-130			
Toluene	3.98	0.0250	5.00	ND	79.6	70-130			
o-Xylene	4.00	0.0250	5.00	ND	79.9	70-130			
p,m-Xylene	8.02	0.0500	10.0	ND	80.2	70-130			
Total Xylenes	12.0	0.0250	15.0	ND	80.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.52		8.00		119	70-130			

Matrix Spike Dup (2542067-MSD1)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	3.70	0.0250	5.00	ND	74.0	70-130	7.89	27	
Ethylbenzene	3.67	0.0250	5.00	ND	73.5	70-130	7.22	26	
Toluene	3.68	0.0250	5.00	ND	73.7	70-130	7.67	20	
o-Xylene	3.72	0.0250	5.00	ND	74.5	70-130	7.02	25	
p,m-Xylene	7.48	0.0500	10.0	ND	74.8	70-130	6.99	23	
Total Xylenes	11.2	0.0250	15.0	ND	74.7	70-130	7.00	26	
Surrogate: 4-Bromochlorobenzene-PID	9.57		8.00		120	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542067-BLK1)

Prepared: 10/15/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		8.00		103	70-130			

LCS (2542067-BS2)

Prepared: 10/15/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		8.00		103	70-130			

Matrix Spike (2542067-MS2)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.32		8.00		104	70-130			

Matrix Spike Dup (2542067-MSD2)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.5	70-130	4.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.35		8.00		104	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542061-BLK1)

Prepared: 10/15/25 Analyzed: 10/15/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.1		50.0		88.1	61-141			

LCS (2542061-BS1)

Prepared: 10/15/25 Analyzed: 10/15/25

Diesel Range Organics (C10-C28)	248	25.0	250		99.3	66-144			
Surrogate: n-Nonane	45.0		50.0		90.0	61-141			

Matrix Spike (2542061-MS1)

Source: E510129-04

Prepared: 10/15/25 Analyzed: 10/15/25

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	46.4		50.0		92.9	61-141			

Matrix Spike Dup (2542061-MSD1)

Source: E510129-04

Prepared: 10/15/25 Analyzed: 10/15/25

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	56-156	3.43	20	
Surrogate: n-Nonane	44.9		50.0		89.7	61-141			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 9:08:11AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542097-BLK1)

Prepared: 10/16/25 Analyzed: 10/16/25

Chloride	ND	20.0							
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LCS (2542097-BS1)

Prepared: 10/16/25 Analyzed: 10/16/25

Chloride	254	20.0	250		102	90-110			
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Matrix Spike (2542097-MS1)

Source: E510141-03

Prepared: 10/16/25 Analyzed: 10/17/25

Chloride	459	20.0	250	172	115	80-120			
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Matrix Spike Dup (2542097-MSD1)

Source: E510141-03

Prepared: 10/16/25 Analyzed: 10/17/25

Chloride	452	20.0	250	172	112	80-120	1.46	20	
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QC Summary Report Comment:

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



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/21/25 09:08

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State					
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E510145		24007-001					X	X					
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																	
Address: 1910 Resource Ct				Phone: 832-541-7719																	
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net																	
Phone: 832-541-7719				Work for: Kinetik Midstream																	
Email: gmoreno@earthsys.net, sgron@earthsys.net																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	RCRA 8 Metals	Cation/Anion Pkg	Rush-24 HR TAT	SDWA	CWA	RCRA		
13:30	10/10/2025	S	1	CS - 1		1		8				X									
13:35	10/10/2025	S	1	CS - 2		2		8				X									
13:40	10/10/2025	S	1	CS - 3		3		8				X									
13:45	10/10/2025	S	1	CS - 4		4		12				X									
13:50	10/10/2025	S	1	CS - 5		5		12				X									
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																					
Sampled by: SG																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
Santiago Giron		10/10/25	16:03	Michelle Gonzales		10-10-25	1603	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Michelle Gonzales		10-13-25	1430	Nathan Gonzales		10-13-25	1430														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Nathan Gonzales		10-13-25	1900	Andrew Musso		10-13-25	1900														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Andrew Musso		10-13-25	2330	Caitlin Marx		10-15-25	800														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



Released to Imaging: 2/4/2026 9:56:06 AM

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Received by OCD: 2/3/2026 11:38:33 AM

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Envirotech Analytical Laboratory

Printed: 10/15/2025 9:29:31AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems Date Received: 10/15/25 08:00 Work Order ID: E510145
Phone: 832-541-7719 Date Logged In: 10/14/25 15:41 Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net Due Date: 10/21/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E510190

Job Number: 24064-0001

Received: 10/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/24/25

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E510190
Date Received: 10/20/2025 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2025 6:30:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/25 09:34
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-6 14'	E510190-01A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-7 14'	E510190-02A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-8 14'	E510190-03A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-9 14'	E510190-04A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-10 14'	E510190-05A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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CS-6 14'
E510190-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.7 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.9 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>						
		90.3 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	113	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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CS-7 14'

E510190-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.7 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		88.8 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	143	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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CS-8 14'
E510190-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.7 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		93.5 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	163	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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CS-9 14'

E510190-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		89.1 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	51.5	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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CS-10 14'

E510190-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543003
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		90.4 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	419	20.0	1	10/20/25	10/20/25	



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543010-BLK1)

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			

LCS (2543010-BS1)

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.74	0.0250	5.00		94.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2543010-MS1)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	4.31	0.0250	5.00	ND	86.2	70-130			
Ethylbenzene	4.40	0.0250	5.00	ND	88.0	70-130			
Toluene	4.37	0.0250	5.00	ND	87.5	70-130			
o-Xylene	4.39	0.0250	5.00	ND	87.9	70-130			
p,m-Xylene	8.93	0.0500	10.0	ND	89.3	70-130			
Total Xylenes	13.3	0.0250	15.0	ND	88.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2543010-MSD1)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	4.53	0.0250	5.00	ND	90.5	70-130	4.92	27	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	70-130	5.26	26	
Toluene	4.60	0.0250	5.00	ND	91.9	70-130	4.95	20	
o-Xylene	4.64	0.0250	5.00	ND	92.8	70-130	5.43	25	
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	70-130	5.22	23	
Total Xylenes	14.0	0.0250	15.0	ND	93.6	70-130	5.29	26	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543010-BLK1)

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			

LCS (2543010-BS2)

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2543010-MS2)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

Matrix Spike Dup (2543010-MSD2)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	0.0272	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543003-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.4		50.0		86.9	61-141			

LCS (2543003-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	233	25.0	250		93.0	66-144			
Surrogate: n-Nonane	43.4		50.0		86.7	61-141			

Matrix Spike (2543003-MS1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2550	25.0	250	2130	169	56-156			M4
Surrogate: n-Nonane	44.7		50.0		89.5	61-141			

Matrix Spike Dup (2543003-MSD1)

Source: E510186-03

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	2950	25.0	250	2130	328	56-156	14.5	20	M4
Surrogate: n-Nonane	44.5		50.0		88.9	61-141			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:34:01AM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543016-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	ND	20.0							
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LCS (2543016-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	263	20.0	250		105	90-110			
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Matrix Spike (2543016-MS1)

Source: E510190-02

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	412	20.0	250	143	108	80-120			
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Matrix Spike Dup (2543016-MSD1)

Source: E510190-02

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	411	20.0	250	143	107	80-120	0.240	20	
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QC Summary Report Comment:

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



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/24/25 09:34

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E510190		24064-001					X	X			
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone: 832-541-7719															
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net															
Phone: 832-541-7719				Work for: Kinetik Midstream															
Email: gmoreno@earthsys.net, sgron@earthsys.net																			

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Push-24 HR TAT	SDWA	CWA	RCRA	
																	Compliance	Y	or	N
																	PWSID #			
																	Remarks			
9:40	10/16/2025	S	1	CS - 6		1		14				X					3.9			Incident #:
9:45	10/16/2025	S	1	CS - 7		2		14				X					4.2			nAPP2521144311
9:50	10/16/2025	S	1	CS - 8		3		14				X					3.7			
9:55	10/16/2025	S	1	CS - 9		4		14				X					4.1			
10:00	10/16/2025	S	1	CS - 10		5		14				X					4.4			

Additional Instructions:

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

Sampled by: <u>SG</u>										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____													
<i>[Signature]</i>	10-17-25	1400	<i>Michelle Gonzales</i>	10-17-25	1400														
<i>Michelle Gonzales</i>	10-17-25	1500	<i>Marissa Gonzales</i>	10-17-25	1500														
<i>Marissa Gonzales</i>	10-17-25	1915	<i>Andrew Musso</i>	10-17-25	1915														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<i>Andrew Musso</i>	10-17-25	2315	<i>Nor. Soto</i>	10-20-25	0630														

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

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



Envirotech Analytical Laboratory

Printed: 10/20/2025 8:49:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems Date Received: 10/20/25 06:30 Work Order ID: E510190
Phone: 832-541-7719 Date Logged In: 10/17/25 16:15 Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net Due Date: 10/24/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E510191

Job Number: 24064-0001

Received: 10/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/24/25

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E510191
Date Received: 10/20/2025 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2025 6:30:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/25 09:41
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-11 8'	E510191-01A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-12 8'	E510191-02A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-13 12'	E510191-03A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-14 12'	E510191-04A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-15 12'	E510191-05A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-16 12'	E510191-06A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
CS-17 12'	E510191-07A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-11 8'

E510191-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.9 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>						
		93.0 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	856	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-12 8'
E510191-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.7 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		87.9 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	747	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-13 12'

E510191-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		88.5 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	317	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-14 12'

E510191-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		92.8 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	45.4	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-15 12'

E510191-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		88.9 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	282	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-16 12'

E510191-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/21/25	
Toluene	ND	0.0250	1	10/20/25	10/21/25	
o-Xylene	ND	0.0250	1	10/20/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	10/20/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		88.4 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	31.4	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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CS-17 12'

E510191-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.4 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/20/25	
<i>Surrogate: n-Nonane</i>		89.3 %	61-141	10/20/25	10/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2543016
Chloride	31.7	20.0	1	10/20/25	10/20/25	



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543010-BLK1)

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			

LCS (2543010-BS1)

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.74	0.0250	5.00		94.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2543010-MS1)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	4.31	0.0250	5.00	ND	86.2	70-130			
Ethylbenzene	4.40	0.0250	5.00	ND	88.0	70-130			
Toluene	4.37	0.0250	5.00	ND	87.5	70-130			
o-Xylene	4.39	0.0250	5.00	ND	87.9	70-130			
p,m-Xylene	8.93	0.0500	10.0	ND	89.3	70-130			
Total Xylenes	13.3	0.0250	15.0	ND	88.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2543010-MSD1)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Benzene	4.53	0.0250	5.00	ND	90.5	70-130	4.92	27	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	70-130	5.26	26	
Toluene	4.60	0.0250	5.00	ND	91.9	70-130	4.95	20	
o-Xylene	4.64	0.0250	5.00	ND	92.8	70-130	5.43	25	
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	70-130	5.22	23	
Total Xylenes	14.0	0.0250	15.0	ND	93.6	70-130	5.29	26	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543010-BLK1)

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			

LCS (2543010-BS2)

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2543010-MS2)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

Matrix Spike Dup (2543010-MSD2)

Source: E510191-03

Prepared: 10/20/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	0.0272	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			



QC Summary Data

Earth Systems	Project Name:	Mal-11 6932	Reported: 10/24/2025 9:41:41AM
1910 Resource Ct	Project Number:	24064-0001	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543013-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.1		50.0		88.2	61-141			

LCS (2543013-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	233	25.0	250		93.3	66-144			
Surrogate: n-Nonane	43.8		50.0		87.7	61-141			

Matrix Spike (2543013-MS1)

Source: E510192-05

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156			
Surrogate: n-Nonane	46.7		50.0		93.4	61-141			

Matrix Spike Dup (2543013-MSD1)

Source: E510192-05

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.57	20	
Surrogate: n-Nonane	46.6		50.0		93.2	61-141			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:41:41AM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543016-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	ND	20.0							
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LCS (2543016-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	263	20.0	250		105	90-110			
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Matrix Spike (2543016-MS1)

Source: E510190-02

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	412	20.0	250	143	108	80-120			
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Matrix Spike Dup (2543016-MSD1)

Source: E510190-02

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride	411	20.0	250	143	107	80-120	0.240	20	
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QC Summary Report Comment:

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



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/24/25 09:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX								
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E510191		24064-0001					X	X											
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																							
Address: 1910 Resource Ct				Phone: 832-541-7719																							
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net																							
Phone: 832-541-7719				Work for: Kinetik Midstream																							
Email: gmoreno@earthsys.net, sgiron@earthsys.net																											
Sample Information																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Fillet	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TEEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Flush 24 hr TAT	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks	
10:05	10/16/2025	S	1	CS - 11			1		8				X													4.4 Incident #:	
10:10	10/16/2025	S	1	CS - 12			2		8				X													4.1 nAPP2521144311	
10:15	10/16/2025	S	1	CS - 13			3		12				X													4.5	
10:20	10/16/2025	S	1	CS - 14			4		12				X													3.9	
10:25	10/16/2025	S	1	CS - 15			5		12				X													4.2	
10:30	10/16/2025	S	1	CS - 16			6		12				X													4.4	
10:35	10/16/2025	S	1	CS - 17			7		12				X													4.3	
Additional Instructions:																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: SG																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____															
Michelle Gonzales		10-17-25		1400		Michelle Gonzales		10-17-25		1400																	
Michelle Gonzales		10-17-25		1500		Marissa Gonzales		10-17-25		1500																	
Marissa Gonzales		10-17-25		1915		Andrew Musso		10-17-25		1915																	
Andrew Musso		10-17-25		2315		No Sub		10-20-25		0630																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



Envirotech Analytical Laboratory

Printed: 10/20/2025 8:51:12AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems Date Received: 10/20/25 06:30 Work Order ID: E510191
Phone: 832-541-7719 Date Logged In: 10/17/25 16:17 Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net Due Date: 10/24/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E510357

Job Number: 24064-0001

Received: 10/30/2025

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
10/30/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/30/25

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E510357
Date Received: 10/30/2025 6:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2025 6:15:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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CS-11 9'	5
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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/30/25 12:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-11 9'	E510357-01A	Soil	10/29/25	10/30/25	Glass Jar, 2 oz.
CS-12 9'	E510357-02A	Soil	10/29/25	10/30/25	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/30/2025 12:57:45PM
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CS-11 9'
E510357-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Benzene	ND	0.0250	1	10/30/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/30/25	10/30/25	
Toluene	ND	0.0250	1	10/30/25	10/30/25	
o-Xylene	ND	0.0250	1	10/30/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/30/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/30/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2544114	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/30/25	
<i>Surrogate: n-Nonane</i>		96.3 %	61-141	10/30/25	10/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2544120	
Chloride	184	20.0	1	10/30/25	10/30/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/30/2025 12:57:45PM
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CS-12 9'

E510357-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544109
Benzene	ND	0.0250	1	10/30/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/30/25	10/30/25	
Toluene	ND	0.0250	1	10/30/25	10/30/25	
o-Xylene	ND	0.0250	1	10/30/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/30/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/30/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.6 %	70-130	10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2544109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.6 %	70-130	10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2544114
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/30/25	
<i>Surrogate: n-Nonane</i>						
		91.6 %	61-141	10/30/25	10/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2544120
Chloride	193	20.0	1	10/30/25	10/30/25	



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/25 12:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State						
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E510357		24064-0001		X				X						
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																		
Address: 1910 Resource Ct				Phone: 832-541-7719																		
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net																		
Phone: 832-541-7719				Work for: Kinetik Midstream																		
Email: gmoreno@earthsys.net, sgiron@earthsys.net																						
Sample Information										Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCED 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Push-24 HR TAT	Grab (G)/Comp ©	SDWA	CWA	RCRA		
9:30	10/29/2025	S	1	CS - 11		1		9				X					C	1.5			Incident #:	
9:35	10/29/2025	S	1	CS - 12		2		9				X					C	1.7			nAPP2521144311	
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Sampled by: SG																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Received on ice: <input checked="" type="radio"/> Lab Use Only T1 _____ T2 _____ T3 _____ AVG Temp °C _____														
Michelle Gonzales		10/29/25	11:00	Michelle Gonzales		10-29-25	1100															
Michelle Gonzales		10/29/25	14:30	Marissa Gonzales		10-29-25	1430															
Marissa Gonzales		10-29-25	2015	Andrew Musso		10-29-25	2015															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time															
Andrew Musso		10-30-25	0100	Noe Soto		10-30-25	0615															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																						
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						

Released to Imaging: 2/4/2026 9:56:06 AM

Page 8 of 9

Received by OCD: 2/3/2026 11:38:33 AM

Page 412 of 464



Envirotech Analytical Laboratory

Printed: 10/30/2025 9:20:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems	Date Received: 10/30/25 06:15	Work Order ID: E510357
Phone: 832-541-7719	Date Logged In: 10/29/25 15:33	Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net	Due Date: 10/30/25 17:00 (0 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E510146

Job Number: 24064-0001

Received: 10/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/21/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/21/25

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E510146
Date Received: 10/15/2025 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/15/2025 8:00:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/25 15:05
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1 0-8	E510146-01A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-2 0-8	E510146-02A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-3 0-12	E510146-03A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-4 0-12	E510146-04A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-5 0-12	E510146-05A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-6 0-14	E510146-06A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-7 0-14	E510146-07A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-8 0-14	E510146-08A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-9 0-14	E510146-09A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-10 0-14	E510146-10A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-11 0-14	E510146-11A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.
SW-12 0-14	E510146-12A	Soil	10/10/25	10/15/25	Glass Jar, 2 oz.

Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-1 0-8

E510146-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		124 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		96.9 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	49.8	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-2 0-8

E510146-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		98.2 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	340	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-3 0-12

E510146-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		125 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		93.4 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	ND	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-4 0-12

E510146-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		126 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		92.5 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	ND	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-5 0-12

E510146-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		127 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		95.2 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	ND	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-6 0-14

E510146-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		127 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		93.3 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	91.7	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-7 0-14

E510146-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		127 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		98.0 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	26.1	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-8 0-14

E510146-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		127 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		97.8 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	ND	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-9 0-14

E510146-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		129 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	106	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-10 0-14

E510146-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/20/25	
Toluene	ND	0.0250	1	10/15/25	10/20/25	
o-Xylene	ND	0.0250	1	10/15/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/15/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %	70-130	10/15/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		95.6 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	53.5	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-11 0-14

E510146-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/20/25	
Toluene	ND	0.0250	1	10/15/25	10/20/25	
o-Xylene	ND	0.0250	1	10/15/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/15/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	10/15/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	26.8	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		93.6 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	131	20.0	1	10/16/25	10/16/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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SW-12 0-14

E510146-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Benzene	ND	0.0250	1	10/15/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/15/25	10/17/25	
Toluene	ND	0.0250	1	10/15/25	10/17/25	
o-Xylene	ND	0.0250	1	10/15/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/15/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/15/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		127 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2542067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/15/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %	70-130	10/15/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2542084
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/16/25	
<i>Surrogate: n-Nonane</i>		99.1 %	61-141	10/16/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2542098
Chloride	277	20.0	1	10/16/25	10/16/25	



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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Volatile Organics by EPA 8021B

Analyst: MB

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542067-BLK1)

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.36		8.00		117	70-130			

LCS (2542067-BS1)

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	4.39	0.0250	5.00		87.7	70-130			
Ethylbenzene	4.34	0.0250	5.00		86.8	70-130			
Toluene	4.36	0.0250	5.00		87.1	70-130			
o-Xylene	4.34	0.0250	5.00		86.8	70-130			
p,m-Xylene	8.78	0.0500	10.0		87.8	70-130			
Total Xylenes	13.1	0.0250	15.0		87.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.43		8.00		118	70-130			

Matrix Spike (2542067-MS1)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	4.01	0.0250	5.00	ND	80.1	70-130			
Ethylbenzene	3.95	0.0250	5.00	ND	79.0	70-130			
Toluene	3.98	0.0250	5.00	ND	79.6	70-130			
o-Xylene	4.00	0.0250	5.00	ND	79.9	70-130			
p,m-Xylene	8.02	0.0500	10.0	ND	80.2	70-130			
Total Xylenes	12.0	0.0250	15.0	ND	80.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.52		8.00		119	70-130			

Matrix Spike Dup (2542067-MSD1)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/16/25

Benzene	3.70	0.0250	5.00	ND	74.0	70-130	7.89	27	
Ethylbenzene	3.67	0.0250	5.00	ND	73.5	70-130	7.22	26	
Toluene	3.68	0.0250	5.00	ND	73.7	70-130	7.67	20	
o-Xylene	3.72	0.0250	5.00	ND	74.5	70-130	7.02	25	
p,m-Xylene	7.48	0.0500	10.0	ND	74.8	70-130	6.99	23	
Total Xylenes	11.2	0.0250	15.0	ND	74.7	70-130	7.00	26	
Surrogate: 4-Bromochlorobenzene-PID	9.57		8.00		120	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542067-BLK1)

Prepared: 10/15/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		8.00		103	70-130			

LCS (2542067-BS2)

Prepared: 10/15/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		8.00		103	70-130			

Matrix Spike (2542067-MS2)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.32		8.00		104	70-130			

Matrix Spike Dup (2542067-MSD2)

Source: E510145-05

Prepared: 10/15/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.5	70-130	4.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.35		8.00		104	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542084-BLK1)

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		93.0	61-141			

LCS (2542084-BS1)

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	242	25.0	250		96.6	66-144			
Surrogate: n-Nonane	46.4		50.0		92.8	61-141			

Matrix Spike (2542084-MS1)

Source: E510146-11

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	323	25.0	250	26.8	119	56-156			
Surrogate: n-Nonane	48.4		50.0		96.9	61-141			

Matrix Spike Dup (2542084-MSD1)

Source: E510146-11

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	279	25.0	250	26.8	101	56-156	14.9	20	
Surrogate: n-Nonane	48.4		50.0		96.8	61-141			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/21/2025 3:05:18PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542098-BLK1)

Prepared: 10/16/25 Analyzed: 10/16/25

Chloride	ND	20.0							
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LCS (2542098-BS1)

Prepared: 10/16/25 Analyzed: 10/16/25

Chloride	253	20.0	250		101	90-110			
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Matrix Spike (2542098-MS1)

Source: E510146-02

Prepared: 10/16/25 Analyzed: 10/16/25

Chloride	614	20.0	250	340	110	80-120			
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Matrix Spike Dup (2542098-MSD1)

Source: E510146-02

Prepared: 10/16/25 Analyzed: 10/16/25

Chloride	604	20.0	250	340	106	80-120	1.62	20	
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QC Summary Report Comment:

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



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/21/25 15:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State						
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E51046		24004001					X	X						
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220																		
Address: 1910 Resource Ct				Phone: 832-541-7719																		
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net																		
Phone: 832-541-7719				Work for: Kinetik Midstream																		
Email: gmoreno@earthsys.net, sgron@earthsys.net																						
Sample Information										Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	RCRA 8 Metals	Cation/Anion Pkg	Rush-24 HR TAT	SDWA	CWA	RCRA		
																			Compliance	Y	or	N
																			PWSID #			
																						Remarks
12:30	10/10/2025	S	1	SW - 1			1		0-8				X									3.2 Incident #:
12:35	10/10/2025	S	1	SW - 2			2		0-8				X									3.0 APP2521144311
12:40	10/10/2025	S	1	SW - 3			3		0-12				X									3.5
12:45	10/10/2025	S	1	SW - 4			4		0-12				X									2.5
12:50	10/10/2025	S	1	SW - 5			5		0-12				X									2.2
12:55	10/10/2025	S	1	SW - 6			6		0-14				X									3.4
13:00	10/10/2025	S	1	SW - 7			7		0-14				X									3.0
13:05	10/10/2025	S	1	SW - 8			8		0-14				X									2.0
13:10	10/10/2025	S	1	SW - 9			9		0-14				X									2.6
13:15	10/10/2025	S	1	SW - 10			10		0-14				X									3.2
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Sampled by: SG																						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____										
Santiago Giron		10/10/25		16:03		Michelle Gonzales		10-10-25		1603												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Michelle Gonzales		10-11-25		1430		Nathan Gonzales		10-13-25		1430												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Nathan Gonzales		10-13-25		1900		Andrew Musso		10-13-25		1900												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Andrew Musso		10-13-25		2330		Cath Mar		10-15-25		800												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA												
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



envirotech

Chain of Custody

Client Information					Invoice Information					Lab Use Only					TAT				State								
Client: Earth Systems R & R					Company: Earth Systems R & R					Lab WO# E510146					Job Number 24004-000				1D 2D 3D Std				NM CO UT TX				
Project Name: MAL-11 6932					Address: 1910 Resource Ct														X								
Project Manager: Gilbert Moreno					City, State, Zip: Carlsbad, NM 88220																						
Address: 1910 Resource Ct					Phone: 832-541-7719																						
City, State, Zip: Carlsbad NM, 88220					Email: gmoreno@earthsys.net																						
Phone: 832-541-7719					Work for: Kinetik Midstream																						
Email: gmoreno@earthsys.net, sgron@earthsys.net																											
Sample Information										Analysis and Method										EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pig	Rush-24 HR TAT	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks		
13:20	10/10/2025	S	1	SW - 11		11		0-14				X													3.0 Incident #:		
13:25	10/10/2025	S	1	SW - 12		12		0-14				X													32 nAPP2521144311		
Additional Instructions:																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: <u>SG</u>																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Received on ice: EY N T1 _____ T2 _____ T3 _____ AVG Temp °C _____															
<i>Santiago Giron</i>		10/10/25		16:03		<i>Michelle Gonzales</i>		10-10-25		1603																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
<i>Michelle Gonzales</i>		10-13-25		14:30		<i>Nathan Gonzales</i>		10-13-25		1430																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
<i>Nathan Gonzales</i>		10-13-25		1900		<i>Andrew Musso</i>		10-13-25		1900																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
<i>Andrew Musso</i>		10-13-25		2330		<i>Cathy Mar</i>		10-15-25		800																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, Q - Other														Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



envirotech

Envirotech Analytical Laboratory

Printed: 10/15/2025 9:31:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems	Date Received: 10/15/25 08:00	Work Order ID: E510146
Phone: 832-541-7719	Date Logged In: 10/14/25 15:45	Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net	Due Date: 10/21/25 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Mal-11 6932

Work Order: E510192

Job Number: 24064-0001

Received: 10/20/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/24/25

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220

Project Name: Mal-11 6932
Workorder: E510192
Date Received: 10/20/2025 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2025 6:30:00AM, under the Project Name: Mal-11 6932.

The analytical test results summarized in this report with the Project Name: Mal-11 6932 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/25 09:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-13 0-8'	E510192-01A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-14 0-8'	E510192-02A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-15 0-12'	E510192-03A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-16 0-12'	E510192-04A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-17 0-12'	E510192-05A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-18 0-12'	E510192-06A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-19 0-12'	E510192-07A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.
SW-20 0-12'	E510192-08A	Soil	10/16/25	10/20/25	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-13 0-8'

E510192-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.7 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		90.1 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2543021
Chloride	39.2	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-14 0-8'

E510192-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		93.5 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	37.2	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-15 0-12'

E510192-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.9 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		93.0 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	44.0	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-16 0-12'

E510192-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.9 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		91.7 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	31.4	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-17 0-12'

E510192-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		90.5 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	68.9	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-18 0-12'

E510192-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.6 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		93.2 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	278	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-19 0-12'

E510192-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.7 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		93.9 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	306	20.0	1	10/20/25	10/20/25	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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SW-20 0-12'

E510192-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Benzene	ND	0.0250	1	10/20/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/20/25	10/22/25	
Toluene	ND	0.0250	1	10/20/25	10/22/25	
o-Xylene	ND	0.0250	1	10/20/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/20/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/20/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2543011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/20/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.7 %	70-130	10/20/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/25	10/21/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/25	10/21/25	
<i>Surrogate: n-Nonane</i>		91.1 %	61-141	10/20/25	10/21/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543021
Chloride	307	20.0	1	10/20/25	10/20/25	



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543011-BLK1)

Prepared: 10/20/25 Analyzed: 10/22/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

LCS (2543011-BS1)

Prepared: 10/20/25 Analyzed: 10/22/25

Benzene	4.90	0.0250	5.00		97.9	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.9	70-130			
Toluene	4.80	0.0250	5.00		96.0	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130			
Total Xylenes	14.3	0.0250	15.0		95.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.45		8.00		106	70-130			

Matrix Spike (2543011-MS1)

Source: E510192-04

Prepared: 10/20/25 Analyzed: 10/22/25

Benzene	5.15	0.0250	5.00	ND	103	70-130			
Ethylbenzene	4.93	0.0250	5.00	ND	98.6	70-130			
Toluene	5.05	0.0250	5.00	ND	101	70-130			
o-Xylene	5.00	0.0250	5.00	ND	100	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.1	0.0250	15.0	ND	100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			

Matrix Spike Dup (2543011-MSD1)

Source: E510192-04

Prepared: 10/20/25 Analyzed: 10/22/25

Benzene	5.01	0.0250	5.00	ND	100	70-130	2.71	27	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	70-130	3.10	26	
Toluene	4.91	0.0250	5.00	ND	98.2	70-130	2.76	20	
o-Xylene	4.88	0.0250	5.00	ND	97.7	70-130	2.40	25	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	70-130	3.02	23	
Total Xylenes	14.7	0.0250	15.0	ND	97.7	70-130	2.81	26	
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543011-BLK1)

Prepared: 10/20/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.3	70-130			

LCS (2543011-BS2)

Prepared: 10/20/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

Matrix Spike (2543011-MS2)

Source: E510192-04

Prepared: 10/20/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			

Matrix Spike Dup (2543011-MSD2)

Source: E510192-04

Prepared: 10/20/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	9.87	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.9	70-130			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543013-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	44.1		50.0		88.2	61-141			

LCS (2543013-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	233	25.0	250		93.3	66-144			
Surrogate: <i>n</i> -Nonane	43.8		50.0		87.7	61-141			

Matrix Spike (2543013-MS1)

Source: E510192-05

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156			
Surrogate: <i>n</i> -Nonane	46.7		50.0		93.4	61-141			

Matrix Spike Dup (2543013-MSD1)

Source: E510192-05

Prepared: 10/20/25 Analyzed: 10/20/25

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.57	20	
Surrogate: <i>n</i> -Nonane	46.6		50.0		93.2	61-141			



QC Summary Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Mal-11 6932 Project Number: 24064-0001 Project Manager: Gilbert Moreno	Reported: 10/24/2025 9:48:16AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543021-BLK1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride ND 20.0

LCS (2543021-BS1)

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 252 20.0 250 101 90-110

Matrix Spike (2543021-MS1)

Source: E510192-05

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 329 20.0 250 68.9 104 80-120

Matrix Spike Dup (2543021-MSD1)

Source: E510192-05

Prepared: 10/20/25 Analyzed: 10/20/25

Chloride 316 20.0 250 68.9 98.8 80-120 4.10 20

QC Summary Report Comment:

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



Definitions and Notes

Earth Systems	Project Name:	Mal-11 6932	
1910 Resource Ct	Project Number:	24064-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/24/25 09:48

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Earth Systems R & R				Company: Earth Systems R & R				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: MAL-11 6932				Address: 1910 Resource Ct				E510192		240640001					X	X			
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone: 832-541-7719															
City, State, Zip: Carlsbad NM, 88220				Email: gmoreno@earthsys.net															
Phone: 832-541-7719				Work for: Kinetik Midstream															
Email: gmoreno@earthsys.net, sgiron@earthsys.net																			

Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	Flush 24 hr TAT	SDWA	CWA	RCRA	
																		Compliance	Y	or	N
																		PWSID #			
																		Remarks			
9:00	10/16/2025	S	1	SW - 13			1		0-8				X					4.3			Incident #:
9:05	10/16/2025	S	1	SW - 14			2		0-8				X					4.5			nAPP2521144311
9:10	10/16/2025	S	1	SW - 15			3		0-12				X					4.7			
9:15	10/16/2025	S	1	SW - 16			4		0-12				X					4.2			
9:20	10/16/2025	S	1	SW - 17			5		0-12				X					4.0			
9:25	10/16/2025	S	1	SW - 18			6		0-12				X					4.1			
9:30	10/16/2025	S	1	SW - 19			7		0-12				X					4.3			
9:35	10/16/2025	S	1	SW - 20			8		0-12				X					4.5			

Additional Instructions:

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

Sampled by: SG										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____													
<i>[Signature]</i>	10-17-25	1400	<i>Michelle Gonzales</i>	10-17-25	1400														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<i>Michelle Gonzales</i>	10-17-25	1500	<i>Marissa Gonzales</i>	10-17-25	1500														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<i>Marissa Gonzales</i>	10-17-25	1915	<i>Andrew Musso</i>	10-17-25	1915														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<i>Andrew Musso</i>	10-17-25	2315	<i>Nee [Signature]</i>	10-20-25	0630														

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 10/20/2025 8:52:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems Date Received: 10/20/25 06:30 Work Order ID: E510192
Phone: 832-541-7719 Date Logged In: 10/17/25 16:19 Logged In By: Caitlin Mars
Email: gmoreno@earthsys.net Due Date: 10/24/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 549642

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2521144311
Incident Name	NAPP2521144311 MAL-11-EXT @ FAPP2123229442
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MAL-11-EXT
Date Release Discovered	07/30/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 10 BBL Recovered: 10 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 549642

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

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

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

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

I hereby agree and sign off to the above statement	Name: Ivan Jimenez Title: Environmental Tech Email: ijimenez@kinetik.com Date: 02/03/2026
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QUESTIONS, Page 3

Action 549642

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	2940
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1820
GRO+DRO (EPA SW-846 Method 8015M)	1744
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/06/2025
On what date will (or did) the final sampling or liner inspection occur	10/29/2025
On what date will (or was) the remediation complete(d)	11/03/2025
What is the estimated surface area (in square feet) that will be reclaimed	3400
What is the estimated volume (in cubic yards) that will be reclaimed	1520
What is the estimated surface area (in square feet) that will be remediated	3400
What is the estimated volume (in cubic yards) that will be remediated	1520

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
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QUESTIONS, Page 4

Action 549642

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Ivan Jimenez Title: Environmental Tech Email: ijimenez@kinetik.com Date: 02/03/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 549642

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 549642

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	542099
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/14/2026
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3400
What was the total volume (cubic yards) remediated	1520
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	3400
What was the total volume (in cubic yards) reclaimed	1520
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.

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

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

I hereby agree and sign off to the above statement	Name: Ivan Jimenez Title: Environmental Tech Email: ijimenez@kinetik.com Date: 02/03/2026
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QUESTIONS, Page 7

Action 549642

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 549642

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 549642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #nAPP2521144311 MAL-11-EXT, thank you. This Remediation Closure Report is approved.	2/4/2026