



**WEST MOUNT SPILL G
CLOSURE REQUEST**

**API NO. 30-005-64381
Unit Letter C, Section 30, Township 15S, Range 29E
CHAVES COUNTY, NEW MEXICO**

**DATE OF RELEASE: 09/21/2023
INCIDENT NO. NAPP2329735127**

**12/27/2025
Prepared by:**



**2724 NW COUNTY ROAD
HOBBS, NM 88240**

December 27, 2025

New Mexico Energy, Mineral & Natural Resources
NMOCD District I
C/O Mike Bratcher and Robert Hamlet
811 S. First Street
Artesia, NM 88210

Mack Energy Corporation
11344 Lovington Hwy
Artesia, NM 88210

Subject: Closure Request for Mack Energy Corporation- West Mount Spill G

API No. 30-005-64381
Incident No. NAPP2329735127
Unit Letter C, Section 30, Township 15S, Range 29E
Chaves County, New Mexico

To Whom It May Concern:

Mack Energy engaged Energy Staffing Services, LLC (ESS) to conduct a spill assessment associated with a produced water release that occurred on September 21, 2023, at the West Mount Spill G site (hereafter referred to as "Spill G"). On September 22, 2023, at 4:12 p.m., ESS promptly notified the New Mexico Oil Conservation Division (NMOCD), District I Office, via email regarding the release (see attached notification).

On behalf of Mack Energy, ESS submitted the initial C-141 Release Notification along with the spill calculator used to determine the release volume on October 24, 2023 (attachments provided). The NMOCD accepted the C-141 as official on the same date at 10:44 a.m. The incident was assigned NMOCD tracking number NAPP2329735127 (notification correspondence attached).

This report provides a comprehensive account of the spill assessment, delineation, and remedial activities completed at Spill G. It confirms that the closure criteria outlined in 19.15.29.12 New Mexico Administrative Code (NMAC) have been met and that all applicable regulatory requirements have been satisfied. This document is submitted as the final report requesting NMOCD approval for closure of the referenced release.

Incident Description

On September 21, 2023, Well Spring, a water transfer company, identified a failure in a lay-flat line that resulted in the release of produced water into the pasture area at Spill G. Upon discovery of the release, ESS was notified and promptly mobilized personnel to conduct a comprehensive environmental site assessment.

Based on measurements of the impacted area, it was determined that approximately 39.14 barrels (bbls) of produced water were released into the pasture area. No recoverable fluids were present at the time of assessment. Initial site photographs and measurements of the impacted area were collected. Please refer to the attached initial site photos for documentation.

Site Characterization

The release at Spill G occurred on State Land at approximate coordinates latitude 32.99116, longitude -104.069688, located approximately 20.3 miles southeast of Hagerman, New Mexico. The legal description of the site is Unit Letter C, Section 30, Township 15 South, Range 29 East, Chaves County, New Mexico. A site schematic is included as an attachment.

Spill G contains production lines and is located near production facilities and well pads. The release occurred within a pasture area at an approximate elevation of 3,732 feet above mean sea level. The area is historically vegetated with black grama, bush muhly, dropseed, creosote bush, and other perennial grasses and forbs. Supporting rangeland and vegetation classification documentation is attached.

According to the United States Department of Agriculture Natural Resources Conservation Service (USDA-NRCS), soils within the Spill G area consist of 100% Tencee-Sotim association (soil map attached). Review of the FEMA National Flood Hazard Layer indicates the site lies within an area with a 0.2% annual chance of flooding, with a 1% annual chance of shallow flooding averaging approximately one foot, typically associated with drainage areas less than one square mile (flood hazard map attached).

The United States Department of the Interior, Bureau of Land Management (BLM) identifies the area surrounding Spill G as having low karst potential (karst map attached).

No surface water bodies are present in proximity to the site, and the release location is not near a continuously flowing watercourse or lakebed within a half-mile radius. A watercourse map is included for reference.

The nearest water wells, according to the *New Mexico Office of the State Engineer*, are as follows:

- RA12428, drilled in 2016, with a well depth of 170 feet and a groundwater depth of 125 feet, located 6,542 meters from the site.
- RA12429 POD 1, drilled in 2016, with a well depth of 62 feet and a groundwater depth of 27 feet, located 8,151 meters from the site.
- RA09248, drilled in 1996, with a well depth of 150 feet and a groundwater depth of 45 feet, located 8,499 meters from the site.
- L14514 Pod 1, drilled in 2018, with a well depth of 208 feet and a groundwater depth of 77 feet, located 8,643 meters from the site.
- RA10280, drilled in 2002, with a well depth of 70 feet and a groundwater depth of 40 feet, located 8,646 meters from the site.

An extended groundwater search conducted using the *OSE POD Location Mapping System* found one well, LWD03197 POD 1, located within a half-mile radius of the release with no groundwater or well depth information available. The NMOSE, OSE POD, and groundwater maps are attached for your review.

On November 18, 2023, Energy Staffing Services, LLC (ESS) mobilized to the Spill G site to establish delineation sampling locations. All sampling points were GPS-recorded. Field crews collected surface and subsurface soil samples, which were field-screened, documented, and submitted to Envirotech Laboratory for analytical confirmation.

A total of 10 vertical delineation sample points and 12 horizontal delineation sample points were established. Soil samples were collected using a backhoe, with sampling conducted at 1-foot and 2-foot depth intervals, as appropriate. Bottom-hole confirmation samples were submitted to the laboratory for additional analysis and verification of field screening results.

Please refer to the delineation sample data table provided below, with laboratory-confirmed results highlighted in yellow. Supplemental documentation, including additional sample data, the delineation sampling map, and laboratory analytical reports, is attached for review.

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO+ MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Soil Remediation Action Levels

Energy Staffing Services, LLC (ESS) collected and evaluated sufficient data to confirm that the produced water release resulted in soil impacts at Spill G. All remediation and abatement activities were conducted in accordance with the New Mexico Oil Conservation Division (NMOCD) Closure Criteria for Soils Impacted by a Release, dated August 14, 2018.

This report documents Mack Energy's initial response actions, along with the site assessment, delineation, and sampling activities performed by ESS personnel. The procedures implemented were designed to meet or exceed applicable regulatory requirements and to fully characterize the extent of soil impacts associated with the release.

A summary of the delineation process completed for the Spill G release is provided below.

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to the NMOCD – approved industry standards. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect clean samples in airtight glass jars supplied by the laboratory to conduct the analysis.
- Each sample jar was labelled with site and sample information.
- Samples were kept in and stored in a cool place and packed on ice.
- Promptly ship samples to the lab for analysis following the chain of custody procedures.

The following lab analysis method was used for each bottom hole (vertical) and sidewall sample (horizontal) was submitted to Envirotech Analytical Laboratory:

Volatile Organics by EPA 8021B

- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes

Nonhalogenated Organics by EPA 8015D – GRO

- Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D – DRO/ORO

- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A

- Chloride

Release Investigation Data

On November 18, 2023, Energy Staffing Services, LLC (ESS) mobilized to the Spill G site to establish delineation sampling locations, all of which were GPS-recorded. Field crews collected surface and subsurface soil samples, which were field-tested, documented, and submitted to Envirotech Laboratory for analytical confirmation.

A total of 10 vertical delineation sample points and 12 horizontal delineation sample points were established. Soil samples were collected using a backhoe, with sampling conducted at 1-foot and 2-foot depth intervals, as appropriate. Bottom-hole confirmation samples were submitted to the laboratory for additional analysis and verification of field screening results.

Please refer to the delineation sample data table provided below, with laboratory-confirmed results highlighted in yellow. Supplemental documentation, including additional sample data, the delineation sampling map, and laboratory analytical reports, is attached for review.

SP ID	Depth	Titr	PID	L- BTEX	L- GRO	L- DRO	L- ORO	L- TPH	L- CHL	Dates
SP1	SURF	80	L	ND	ND	ND	69.7	69.7	ND	11/18/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	51.7	6/27/2024
SP2	SURF	2160	L	ND	ND	ND	ND	ND	2330	11/18/2023
	2	1160								
	4	240								
	6	240	L	ND	ND	ND	ND	ND	81.6	6/27/2024
SP3	SURF	1040	L	ND	ND	ND	57.3	57.3	1030	11/18/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	87.1	6/27/2024
SP4	SURF	2480	L	ND	ND	ND	ND	ND	3180	11/18/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	140	6/27/2024
SP5	SURF	1840	L	ND	ND	ND	ND	ND	2240	11/18/2023
	2	480								
	4	160	L	ND	ND	ND	ND	ND	27.6	6/27/2024
SP6	SURF	1040	L	ND	ND	ND	ND	ND	1190	11/18/2023
	2	400								
	4	400	L	ND	ND	ND	ND	ND	295	6/27/2024
SP7	SURF	1520	L	ND	ND	ND	ND	ND	1410	11/18/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	324	6/27/2024
SP8	SURF	2000	L	ND	ND	ND	ND	ND	2670	11/18/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	142	6/28/2024
SP9	SURF	1120	L	ND	ND	ND	ND	ND	819	11/18/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	ND	6/28/2024

SP10	SURF	2400	L	ND	ND	ND	ND	ND	2640	11/18/2023
	2	400								
	4	240	L	ND	ND	ND	ND	ND	ND	6/28/2024
SW1	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	6/28/2024
SW2	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	6/28/2024
SW3	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	240								
	2	240	L	ND	ND	ND	ND	ND	63.1	6/28/2024
SW4	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	400								
	2	240	L	ND	ND	ND	ND	ND	64.6	6/28/2024
SW5	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	24.1	6/28/2024
SW6	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	25	6/28/2024
SW7	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	24.8	6/28/2024
SW8	SURF	1680	L	ND	ND	ND	ND	ND	829	11/18/2023
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	7/1/2024
SW9	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	240								
	2	240	L	ND	ND	ND	ND	ND	158	7/1/2024

SW10	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	7/1/2024
SW11	SURF	160	L	ND	ND	ND	ND	ND	75.1	11/18/2023
	1	240								
	2	240	L	ND	ND	ND	ND	ND	21.8	7/1/2024
SW12	SURF	160	L	ND	ND	ND	ND	ND	ND	11/18/2023
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	7/1/2024

Please find the delineation photographs attached to this report.

On August 19, 2024, Energy Staffing Services, LLC (ESS) issued the official notification to the New Mexico Oil Conservation Division (NMOCD) regarding the composite sampling phase of the release at Spill G. The NMOCD received and acknowledged the notification on the same date (see attached email correspondence).

On August 27, 2024, ESS field crews initiated the collection of 200-square-foot composite soil samples from the excavation area at Spill G. A total of 49 bottom-hole composite samples were collected, field-screened, and submitted to Envirotech Laboratory for analytical confirmation. The composite sample data are provided below and are also included as attachments to this report, along with the corresponding laboratory analytical results.

SP ID	Depth	Titr	PID	L- BTEX	L- GRO	L- DRO	L- ORO	L- TPH	L- CHL	Dates
COMP1	4	160	L	ND	ND	ND	ND	ND	35	8/27/2024
COMP2	4	240	L	ND	ND	ND	ND	ND	91.9	8/27/2024
COMP3	6	160	L	ND	ND	ND	ND	ND	30.4	8/27/2024
COMP4	6	320	L	ND	ND	ND	ND	ND	118	8/27/2024
COMP5	6	160	L	ND	ND	ND	ND	ND	34.8	8/27/2024
COMP6	6	320	L	ND	ND	ND	ND	ND	115	8/27/2024
COMP7	6	240	L	ND	ND	ND	ND	ND	63.9	8/27/2024

COMP8	4	240	L	ND	ND	ND	ND	ND	66.2	8/27/2024
COMP9	4	160	L	ND	ND	ND	ND	ND	33.2	8/27/2024
COMP10	4	240	L	ND	ND	ND	ND	ND	78.2	8/27/2024
COMP11	4	240	L	ND	ND	ND	ND	ND	104	8/27/2024
COMP12	4	320	L	ND	ND	ND	ND	ND	113	8/27/2024
COMP13	4	320	L	ND	ND	ND	ND	ND	170	8/28/2024
COMP14	4	160	L	ND	ND	ND	ND	ND	21.1	8/28/2024
COMP15	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP16	4	240	L	ND	ND	ND	ND	ND	101	8/28/2024
COMP17	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP18	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP19	4	240	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP20	4	160	L	ND	ND	ND	ND	ND	57.5	8/28/2024
COMP21	4	320	L	ND	ND	ND	ND	ND	171	8/28/2024
COMP22	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP23	4	160	L	ND	ND	ND	ND	ND	54.4	8/28/2024
COMP24	4	240	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP25	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP26	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP27	4	160	L	ND	ND	ND	ND	ND	ND	8/28/2024
COMP28	4	240	L	ND	ND	ND	ND	ND	95.8	8/28/2024

COMP29	4	160	L	ND	ND	ND	ND	ND	27.2	8/29/2024
COMP30	4	160	L	ND	ND	ND	ND	ND	25.3	8/29/2024
COMP31	4	240	L	ND	ND	ND	ND	ND	139	8/29/2024
COMP32	4	240	L	ND	ND	ND	ND	ND	159	8/29/2024
COMP33	4	240	L	ND	ND	ND	ND	ND	120	8/29/2024
COMP34	4	240	L	ND	ND	ND	ND	ND	116	8/29/2024
COMP35	4	160	L	ND	ND	ND	ND	ND	26.2	8/29/2024
COMP36	4	160	L	ND	ND	ND	ND	ND	27.1	8/29/2024
COMP37	4	240	L	ND	ND	ND	ND	ND	115	8/30/2024
COMP39	4	240	L	ND	ND	ND	ND	ND	117	8/30/2024
SWCOMP1	4	160	L	ND	ND	ND	ND	ND	25	8/30/2024
SWCOMP2	4	240	L	ND	ND	ND	ND	ND	111	8/30/2024
SWCOMP3	4	160	L	ND	ND	ND	ND	ND	25.3	8/30/2024
SWCOMP4	4	320	L	ND	ND	ND	ND	ND	175	8/30/2024
SWCOMP5	4	320	L	ND	ND	ND	ND	ND	179	8/30/2024
SWCOMP6	4	240	L	ND	ND	ND	ND	ND	117	8/30/2024
SWCOMP7	4	240	L	ND	ND	ND	ND	ND	109	8/30/2024
SWCOMP8	4	320	L	ND	ND	ND	ND	ND	188	8/30/2024
SWCOMP9	4	160	L	ND	ND	ND	ND	ND	25.6	8/30/2024
SWCOMP10	4	240	L	ND	ND	ND	ND	ND	115	8/30/2024

Please find the remediation photographs attached to this report.

The impacted area at Spill G measured approximately 6,293 square feet. During the remediation phase, a total of 840 cubic yards of impacted soil was excavated and transported to Gandy's Disposal for proper disposal. In addition, 960 cubic yards of caliche were hauled from Gandy's Disposal to the site for backfilling, along with 144 cubic yards of topsoil sourced from the landowner's pit.

Following backfilling, the site was contoured and sloped to restore natural grade and subsequently seeded. Backfilling and seeding activities were completed on January 14, 2025. Final site photographs documenting post-remediation conditions are included as attachments.

Closure Request

On behalf of Mack Energy, Energy Staffing Services, LLC (ESS) hereby formally requests closure of incident NAPP2329735127, associated with the produced water release at the West Mount Spill G pasture area. Both Mack Energy and ESS certify that the information contained within this report is accurate, complete, and true to the best of our knowledge. Furthermore, both entities confirm that all applicable regulatory closure requirements have been satisfied.

Should you have any questions or require additional information regarding this closure request, please contact the undersigned at (575) 390-6397 or (575) 393-9048. Written inquiries may also be submitted via email to natalie@energystaffingllc.com.

Sincerely,



Natalie Ragsdal

COO - Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



Attachments

Spill Notification
Initial C141 and Spill Calculator Form
Impact Map
Initial Site Photos
Site Map
Rangeland and Vegetation Classification
Soil Map
FEMA National Flood Hazard Layer Map
Karst Geology Map
Watercourse Water Map
Groundwater Information
Groundwater Map
OSE POD Map
Delineation Sample Data
Delineation Sample Map and GPS Log
Lab Analysis for Delineation
Delineation Site Photos
Composite Notification
Composite Sample Data
Composite Sample Map and GPS Log
Lab analysis for Remediation
Remediation and Final Photos
Final Reclamation Report



Outlook

FW: MACK ENERGY - WESTMOUNT FEDERAL COM #1 RELEASE'S

From Natalie Gladden <natalie@energystaffingllc.com>

Date Thu 1/30/2025 11:28 AM

To Brittney Corral <brittney@energystaffingllc.com>

Natalie Gladden**Director of Environmental and Regulatory Services****Energy Staffing Services, LLC.****2724 NW County Road****Hobbs, NM 88240****Cell: 575-390-6397****Office: 575-393-9048****Email: natalie@energystaffingllc.com****From:** Natalie Gladden**Sent:** Tuesday, September 26, 2023 2:39 PM

To: ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Amos, James A <JAMOS@BLM.GOV>; staylor@blm.gov

Cc: mattbuckles@mec.com**Subject:** RE: MACK ENERGY - WESTMOUNT FEDERAL COM #1 RELEASE'S

Here is the last of them. C141's will be finalized and uploaded shortly. I will send an update with Incident numbers when they are completed.

LOCATION	BBLS RELEASED	BBLS RECOVERED	LAT	LONG	INCIDENT NO.
WEST MOUNT #1 RELEASE	96.64	0	32.978491	-104.094969	NAPP2325464608
WEST MOUNT 9.14.23 RELEASE	206.76	0	32.98084	-104.12499	NAPP2326353635
WEST MOUNT 1A	156.17	0	32.97852	-104.09253	
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
WEST MOUNT SPILL A	84.53	0	33.000002	-104.070796	
WEST MOUNT SPILL B	16.35	0	32.999326	-104.071112	
WEST MOUNT SPILL C	30.56	0	32.988705	-104.072056	
WEST MOUNT SPILL D	23.97	0	32.997553	-104.070702	
WEST MOUNT SPILL E	6.21	0	32.995899	-104.070484	
WEST MOUNT SPILL F	52.01	0	32.993548	-104.06973	
WEST MOUNT SPILL G	39.14	0	32.99116	-104.069688	
WEST MOUNT SPILL H	32.78	0	32.98947	-104.069673	
WEST MOUNT SPILL I	5.55	0	32.977062	-104.07104	
WEST MOUNT SPILL J	9.57	0	32.987071	-104.07267	
WEST MOUNT SPILL K	137.04	0	32.986297	-104.073293	
WEST MOUNT SPILL L	5.63	0	32.980975	-104.076513	
WEST MOUNT SPILL M	4.33	0	32.980377	-104.077642	
WEST MOUNT SPILL N	27.95	0	32.980198	-104.07756	
WEST MOUNT SPILL O	37.6	0	32.97911	-104.07904	
WEST MOUNT SPILL P	11.47	0	32.978302	-104.086227	
WEST MOUNT SPILL Q	28.39	0	32.9785	-104.088419	
WEST MOUNT SPILL R	57.7	0	32.978615	-104.098708	
WEST MOUNT SPILL S	37.79	0	32.980236	-104.100214	
WEST MOUNT SPILL T	1.96	0	32.981999	-104.100329	

WEST MOUNT SPILL U	72.38	0	32.983718	-104.099543	
WEST MOUNT SPILL V	29.73	0	32.983887	-104.099136	
WEST MOUNT SPILL W	158.62	0	32.984507	-104.09919	
WEST MOUNT SPILL X	20.11	0	32.986417	-104.101312	
WEST MOUNT SPILL Y	18.18	0	32.987519	-104.102957	
WEST MOUNT SPILL Z	459.2	0	32.989524	-104.110031	
WEST MOUNT SPILL AA	14.97	0	32.988148	-104.11355	
WEST MOUNT SPILL BB	14.58	0	32.987211	-104.115205	
WEST MOUNT SPILL CC	25.44	0	32.983495	-104.119472	
WEST MOUNT SPILL DD	13.66	0	32.981861	-104.120784	

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



From: Natalie Gladden

Sent: Friday, September 22, 2023 4:12 PM

To: ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Amos, James A <JAMOS@BLM.GOV>; staylor@blm.gov

Cc: mattbuckles@mec.com

Subject: MACK ENERGY - WESTMOUNT FEDERAL COM #1 RELEASE'S

Importance: High

All,

On September 9th, Matt Buckles with Mack Energy reported a release at the Westmount #1 at 12:31pm by email. This incident report is NAPP2325464608. On September 14th, another report of a release was sent out also on the same line but in a different area, this incident report is NAPP2326353635. The frac line company known as Well Spring Automation, LLC is responsible for laying, maintaining, and removing said frac line and is contracted by Mack Energy to do so. After further investigation due to the sizes of two spills mentioned above, the following releases have been located, photo'd, and mapped. This is a large list of releases. We were not sure how to handle this as we are still finding the releases currently. As of right now we know of 23 releases that have occurred over the last two days. Crews are on site and documenting each release. As we are aware each release will have its own C141 and incident number. We will send out additional notifications as they become available, spills are located and documented. Each release will be handled individually moving forward. Below is the first set of releases that will be added to the Westmount Federal Com #1 list:

LOCATION	BBLS RELEASED	BBLS RECOVERED	LAT	LONG	INCIDENT NO.
WEST MOUNT #1 RELEASE	96.64	0	32.978491	-104.094969	NAPP2325464608
WEST MOUNT 9.14.23 RELEASE	206.76	0	32.98084	-104.12499	NAPP2326353635
WEST MOUNT 1A	156.17	0	32.97852	-104.09253	
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
WEST MOUNT SPILL A	84.53	0	33.000002	-104.070796	
WEST MOUNT SPILL B	16.35	0	32.999326	-104.071112	
WEST MOUNT SPILL C	30.56	0	32.988705	-104.072056	
WEST MOUNT SPILL D	23.97	0	32.997553	-104.070702	
WEST MOUNT SPILL E	6.21	0	32.995899	-104.070484	
WEST MOUNT SPILL F	52.01	0	32.993548	-104.06973	
WEST MOUNT SPILL G	39.14	0	32.99116	-104.069688	
WEST MOUNT SPILL H	32.78	0	32.98947	-104.069673	
WEST MOUNT SPILL I	5.55	0	32.977062	-104.07104	
WEST MOUNT SPILL J	9.57	0	32.987071	-104.07267	

WEST MOUNT SPILL K	137.04	0	32.986297	-104.073293	
WEST MOUNT SPILL L	5.63	0	32.980975	-104.076513	
WEST MOUNT SPILL M	4.33	0	32.980377	-104.077642	
WEST MOUNT SPILL N	27.95	0	32.980198	-104.07756	
WEST MOUNT SPILL O	37.6	0	32.97911	-104.07904	
WEST MOUNT SPILL P	11.47	0	32.978302	-104.086227	
WEST MOUNT SPILL Q	28.39	0	32.9785	-104.088419	
WEST MOUNT SPILL R	57.7	0	32.978615	-104.098708	
WEST MOUNT SPILL S	37.79	0	32.980236	-104.100214	

We will be making more updates as releases are found. C141's will be sent out to the BLM and uploaded to the NMOCD as soon as possible.

If you have any questions, please let me know.

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2329735127
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party MACK ENERGY CORPORATION	OGRID 013837
Contact Name MATT BUCKLES	Contact Telephone 575-703-1958
Contact email mattbuckles@mec.com	Incident # (assigned by OCD)
Contact mailing address 11344 Lovington Highway, Artesia NM 88210	

Location of Release Source

Latitude **32.99116**Longitude **-104.069688**

(NAD 83 in decimal degrees to 5 decimal places)

Site Name WEST MOUNT SPILL G	Site Type PRODUCTION AREA
Date Release Discovered 9/21/2023	API# (if applicable) 30-005-64381

Unit Letter	Section	Township	Range	County
C	30	15S	29E	CHAVES

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 39.14	Volume Recovered (bbls) 0BBLs
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The water transfer company Well Spring found a failure on their lay flat line, releasing the fluid to the pasture area.

Form C-141

State of New Mexico

Page 2

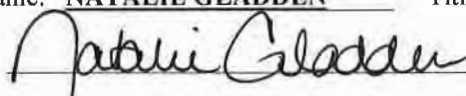
Oil Conservation Division

Incident ID	NAPP2329735127
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? DUE TO VOLUME OF RELEASE
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email was sent to the OCD, Bratcher, Hamlet, Venegas, on 9/22 at 4:12pm	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: NATALIE GLADDEN	Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY
Signature: 	Date: 10/24/23
email: natalie@energystaffingll.com	Telephone: 575-390-6397
OCD Only	
Received by: Shelly Wells	Date: 10/24/2023

MACK ENERGY - WEST MOUNT SPILL G

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0.19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	10	10	0.083	8.3	0.24	Fine Sand
Medium Sand	0.25	253.35	41.77	0.083	878.34165	39.14	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravelly Sand	0.26	10	10	0.083	8.3	0.38	Gravelly Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	2	3	4	5	6
0.083	0.166	0.250	0.332	0.415	0.500
7	8	9	10	11	12
0.581	0.664	0.750	0.830	0.913	1.000

NOTE: This is an estimate tool designed for quick field estimates of whether a C-141 should be required (i.e. a release is estimated to be greater than or less than 5 barrel volumes)

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

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

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

CONDITIONS

Action 278737

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 278737
	Action Type: [C-141] Release Corrective Action (C-141)


CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/24/2023

MACK ENERGY

WEST MOUNT SPILL G
IMPACT MAP

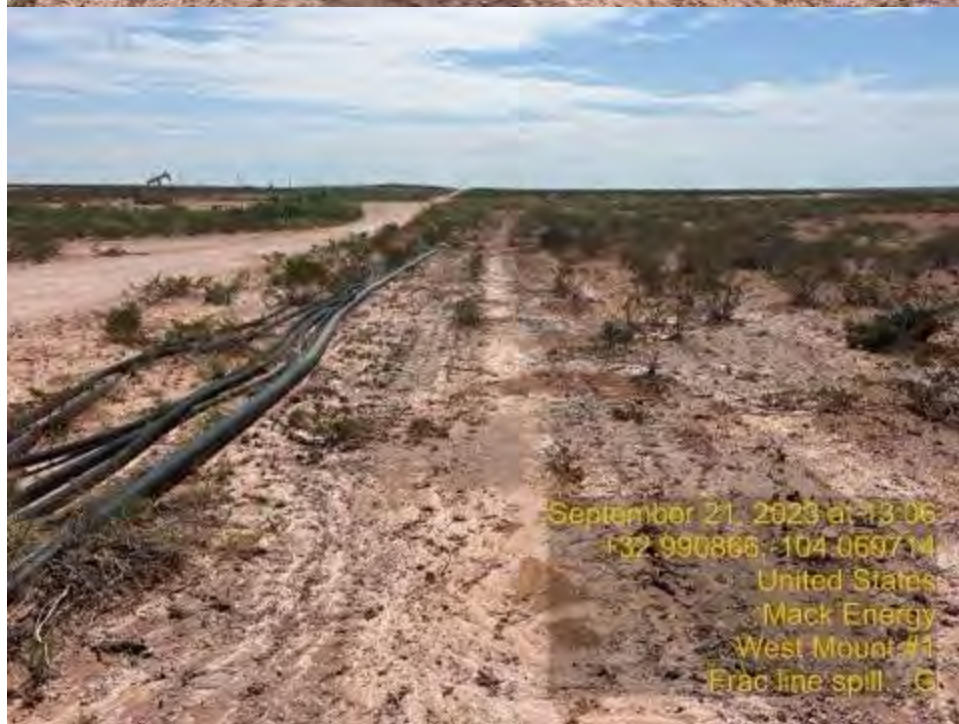
Legend

 Mack Energy- West Mount Spill G 6293 SQ. FT.



**MACK ENERGY: WEST MOUNT SPILL G
INITIAL SITE PHOTOS**











WEST MOUNT SPILL G

Round Tank

Pipeline



Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

In areas that have similar climate and topography, differences in the kind and amount of rangeland or forest understory vegetation are closely related to the kind of soil. Effective management is based on the relationship between the soils and vegetation and water.

This table shows, for each soil that supports vegetation, the ecological site, plant association, or habitat type; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An *ecological site*, *plant association*, or *habitat type* is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site, plant association, or habitat type is typified by an association of species that differs from that of other ecological sites, plant associations, or habitat types in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service (NRCS). Descriptions of plant associations or habitat types are available from local U.S. Forest Service offices.

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation (the grasses, forbs, shrubs, and understory trees that make up most of the potential natural plant community on each soil) is listed by common name. Under *rangeland composition and forest understory*, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The percentages are by dry weight for rangeland. Percentages for forest understory are by either dry weight or canopy cover. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in the "National Range and Pasture Handbook," which is available in local offices of NRCS or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service, [National range and pasture handbook](#).

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition---Chaves County, New Mexico,
Southern Part

WEST MOUNT SPILL G

Report—Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

6/5/2024
Page 3 of 6

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition—Chaves County, New Mexico, Southern Part								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt	
TS—Tencee-Sotim association								

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition---Chaves County, New Mexico, Southern Part

WEST MOUNT SPILL G

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition--Chaves County, New Mexico, Southern Part								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt	
Tencee	Shallow (R070BC025NM)	500	375	125	black grama	20		
					bush muhly	20		
					creosotebush	10		
					other perennial forbs	10		
					other perennial grasses	10		
					broom snakeweed	5		
					Eriogonum	5		
					low woollygrass	5		
					mariola	5		
					rabo de ardilla	5		
					sand dropseed	5		
					crown of thorns	3		
					fourwing saltbush	3		
					javelina brush	2		
					Nevada jointfir	2		
Sotim	Sandy (R070BD004NM)	1,200	—	600	black grama	35		
					dropseed	15		
					other perennial forbs	10		
					blue grama	5		
					bush muhly	5		
					little bluestem	5		
					other shrubs	5		
					other perennial grasses	5		
					plains lovegrass	5		
					threeawn	5		
					yucca	5		
USDA Natural Resources Conservation Service				Web Soil Survey National Cooperative Soil Survey				6/5/2024 Page 5 of 6

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition---Chaves County, New Mexico,
Southern Part

WEST MOUNT SPILL G

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part

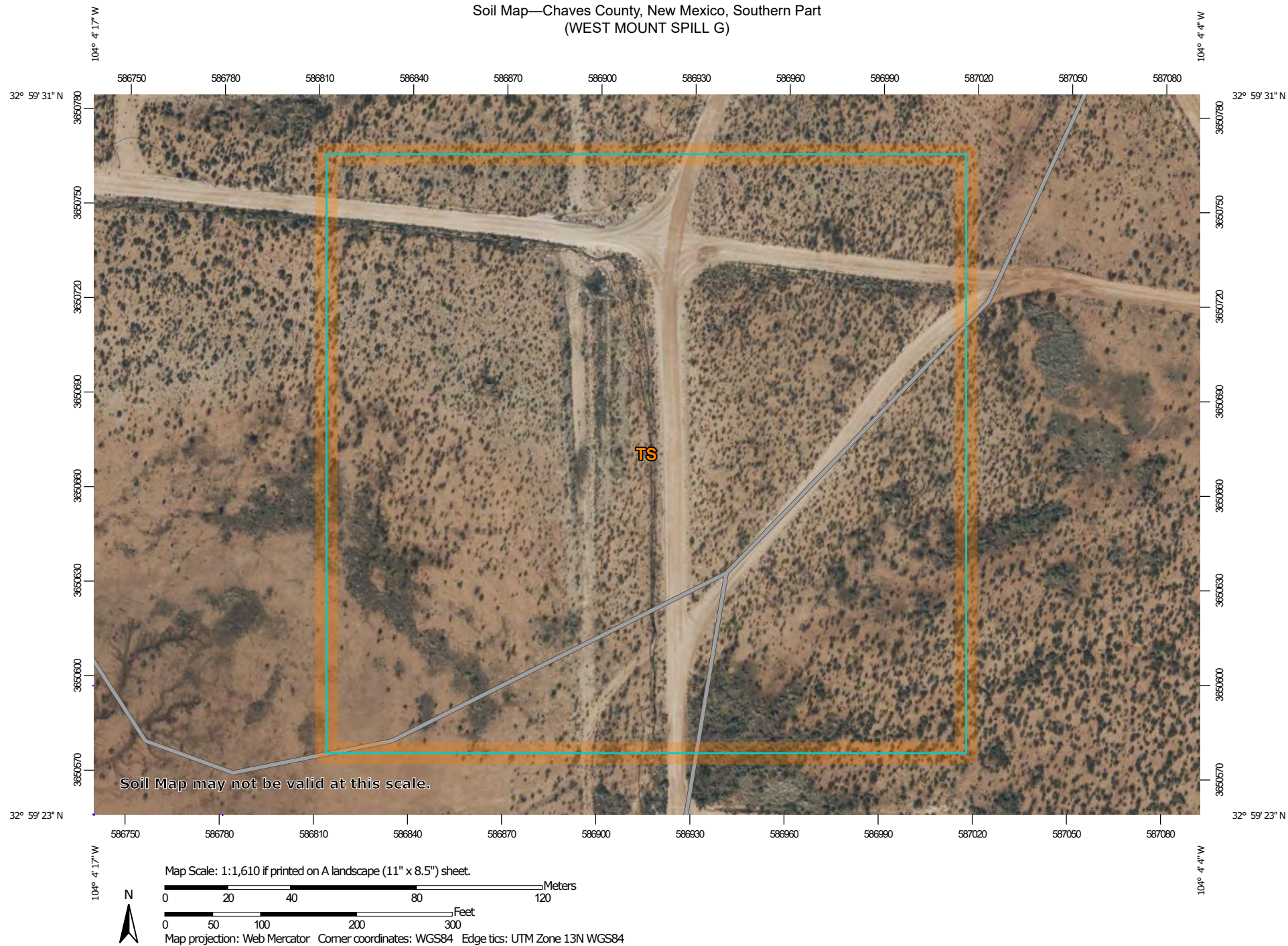
Survey Area Data: Version 18, Sep 7, 2023



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

6/5/2024
Page 6 of 6

Soil Map—Chaves County, New Mexico, Southern Part
(WEST MOUNT SPILL G)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey6/5/2024
Page 1 of 3

Soil Map—Chaves County, New Mexico, Southern Part
(WEST MOUNT SPILL G)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Southern Part

Survey Area Data: Version 18, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TS	Tencee-Sotim association	9.6	100.0%
Totals for Area of Interest		9.6	100.0%

National Flood Hazard Layer FIRMette



104°4'30"W 32°59'43"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°3'52"W 32°59'13"N

Released to Imaging: 1/9/2026 10:15:59 AM

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/5/2024 at 10:16 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Legend

- High
- Low
- Medium
- WEST MOUNT SPILL G



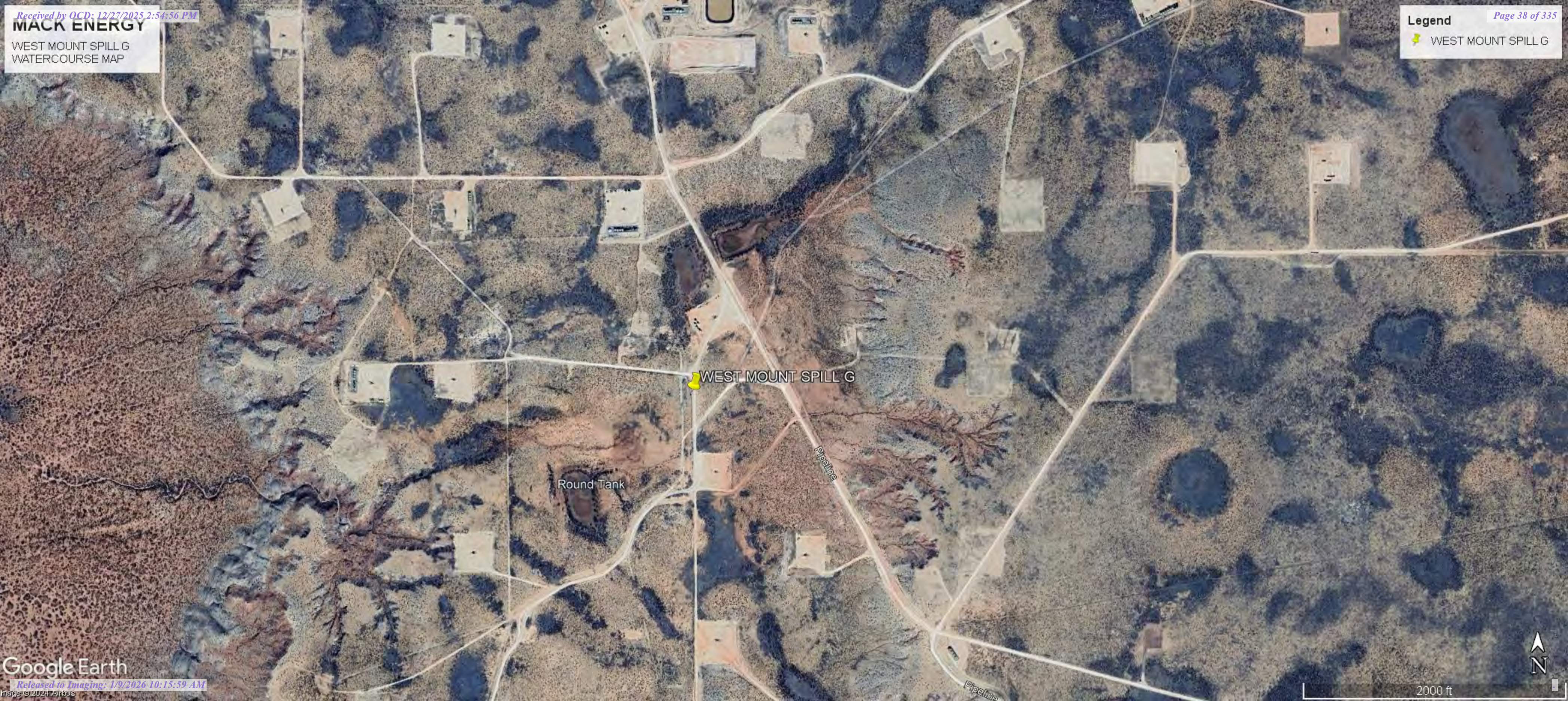
MACK ENERGY

WEST MOUNT SPILL G
WETLANDS MAP

Legend

- PEM
- RIVERINE
- WEST MOUNT SPILL G







New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586916.1

Northing (Y): 3650691.18

Radius: 1000

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



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586916.1 **Northing (Y):** 3650691.18 **Radius:** 5000

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



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD			Source	q q q			X	Y	Distance	Start Date	Log File		Depth Well	Depth Water	Driller	License Number			
	Sub-Code	basin	County		6416	4	Sec					Tws	Rng					Date	Date	
RA 12428	RA	CH	Shallow	4	2	1	21	15S	28E	580579	3652317		6542	07/28/2016	08/04/2016	08/08/2016	170	125	DONALD KUEHN III	1058
RA 12429 POD1	RA	CH	Shallow	1	1	4	32	15S	28E	579093	3648401		8151	11/17/2016	11/17/2016	11/28/2016	62	27	EADES, ALAN	1044
RA 09248	RA	CH	Shallow	1	4	3	17	15S	28E	578704	3652884*		8499	07/10/1996	07/13/1996	07/25/1996	150	45	RAYMOND ANDERSON	1344
L 14514 POD1	L	LE	Shallow	2	2	1	32	15S	36E	595494	3649622		8643	08/09/2018	08/10/2018	08/17/2018	208	77	JOHN GOERTZEN	1611
RA 10280	RA	CH	Shallow	4	3	3	17	15S	28E	578501	3652680*		8646	06/20/2002	07/15/2002	04/23/2003	70	40	CARREON, FERNANDO	1490
RA 09059	RA	CH	Shallow	2	4	4	18	15S	28E	578099	3652875*		9083	11/13/1995	01/15/1996	02/08/1997	110	35	RAYMOND ANDERSON	1344

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 586916.1

Northing (Y): 3650691.18

Radius: 10000

*UTM location was derived from PLSS - see Help


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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 12428		4	2	1	21	15S	28E	580579	3652317 

Driller License: 1058	Driller Company: KEY'S DRILLING & PUMP SERVICE
Driller Name: DONALD KUEHN III	
Drill Start Date: 07/28/2016	Drill Finish Date: 08/04/2016
Log File Date: 08/08/2016	PCW Rcv Date:
Pump Type:	Pipe Discharge Size:
Casing Size: 4.50	Depth Well: 170 feet
	Plug Date:
	Source: Shallow
	Estimated Yield: 15 GPM
	Depth Water: 125 feet

Water Bearing Stratifications:	Top	Bottom	Description
	125	140	Sandstone/Gravel/Conglomerate
	140	160	Sandstone/Gravel/Conglomerate
	160	170	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	125	170

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

6/5/24 8:20 AM

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POD SUMMARY - RA 12428



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 12429	POD1	1	1	4	32	15S	28E	579093	3648401

Driller License: 1044	Driller Company: EADES WELL DRILLING & PUMP SERVICE
Driller Name: EADES, ALAN	
Drill Start Date: 11/17/2016	Drill Finish Date: 11/17/2016
Log File Date: 11/28/2016	PCW Rcv Date:
Pump Type:	Pipe Discharge Size:
Casing Size: 5.13	Depth Well: 62 feet
	Plug Date:
	Source: Shallow
	Estimated Yield:
	Depth Water: 27 feet

Water Bearing Stratifications:	Top	Bottom	Description
	27	33	Sandstone/Gravel/Conglomerate
	33	62	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	22	62

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6/5/24 8:21 AM

Page 1 of 1

POD SUMMARY - RA 12429 POD1



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 09248	1	4	3	17	15S	28E	578704	3652884*

Driller License: 1344 **Driller Company:** ANDERSON, RAYMOND

Driller Name: RAYMOND ANDERSON

Drill Start Date: 07/10/1996

Drill Finish Date: 07/13/1996

Plug Date:

Log File Date: 07/25/1996

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 2 GPM

Casing Size: 4.50

Depth Well: 150 feet

Depth Water: 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	60	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	45	100

*UTM location was derived from PLSS - see Help

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6/5/24 8:21 AM

Page 1 of 1


POD SUMMARY - RA 09248



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20765	L 14514 POD1	2	2	1	32	15S	36E	595494	3649622 

Driller License: 1611 **Driller Company:** GOERTZEN DRILLING

Driller Name: JOHN GOERTZEN

Drill Start Date: 08/09/2018

Drill Finish Date: 08/10/2018

Plug Date:

Log File Date: 08/17/2018

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 5.00

Depth Well: 208 feet

Depth Water: 77 feet

Water Bearing Stratifications:

Top	Bottom	Description
104	125	Sandstone/Gravel/Conglomerate
125	150	Sandstone/Gravel/Conglomerate
150	160	Sandstone/Gravel/Conglomerate
162	175	Other/Unknown
175	185	Sandstone/Gravel/Conglomerate
185	202	Sandstone/Gravel/Conglomerate
202	205	Other/Unknown
205	208	Other/Unknown

Casing Perforations:

Top	Bottom
0	208

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6/5/24 8:21 AM

Page 1 of 1

POD SUMMARY - L 14514 POD1



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 10280		4	3	3	17	15S	28E	578501	3652680*

Driller License: 1490 **Driller Company:** FERNANDO'S WATER WELL

Driller Name: CARREON, FERNANDO

Drill Start Date: 06/20/2002

Drill Finish Date: 07/15/2002

Plug Date:

Log File Date: 04/23/2003

PCW Rcv Date:

Source: Shallow

Pump Type: SUBMER

Pipe Discharge Size: 1.25

Estimated Yield: 10 GPM

Casing Size: 5.00

Depth Well: 70 feet

Depth Water: 40 feet

Water Bearing Stratifications: **Top Bottom Description**

1 70 Sandstone/Gravel/Conglomerate

Casing Perforations: **Top Bottom**

40 70

*UTM location was derived from PLSS - see Help

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6/5/24 8:22 AM


Page 1 of 1

POD SUMMARY - RA 10280



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng
	LWD 03197 POD1				30	15S	29E
							587075 3650222* 

x		
Driller License:	Driller Company:	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water:

x

*UTM location was derived from PLSS - see Help

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

6/21/24 12:19 PM

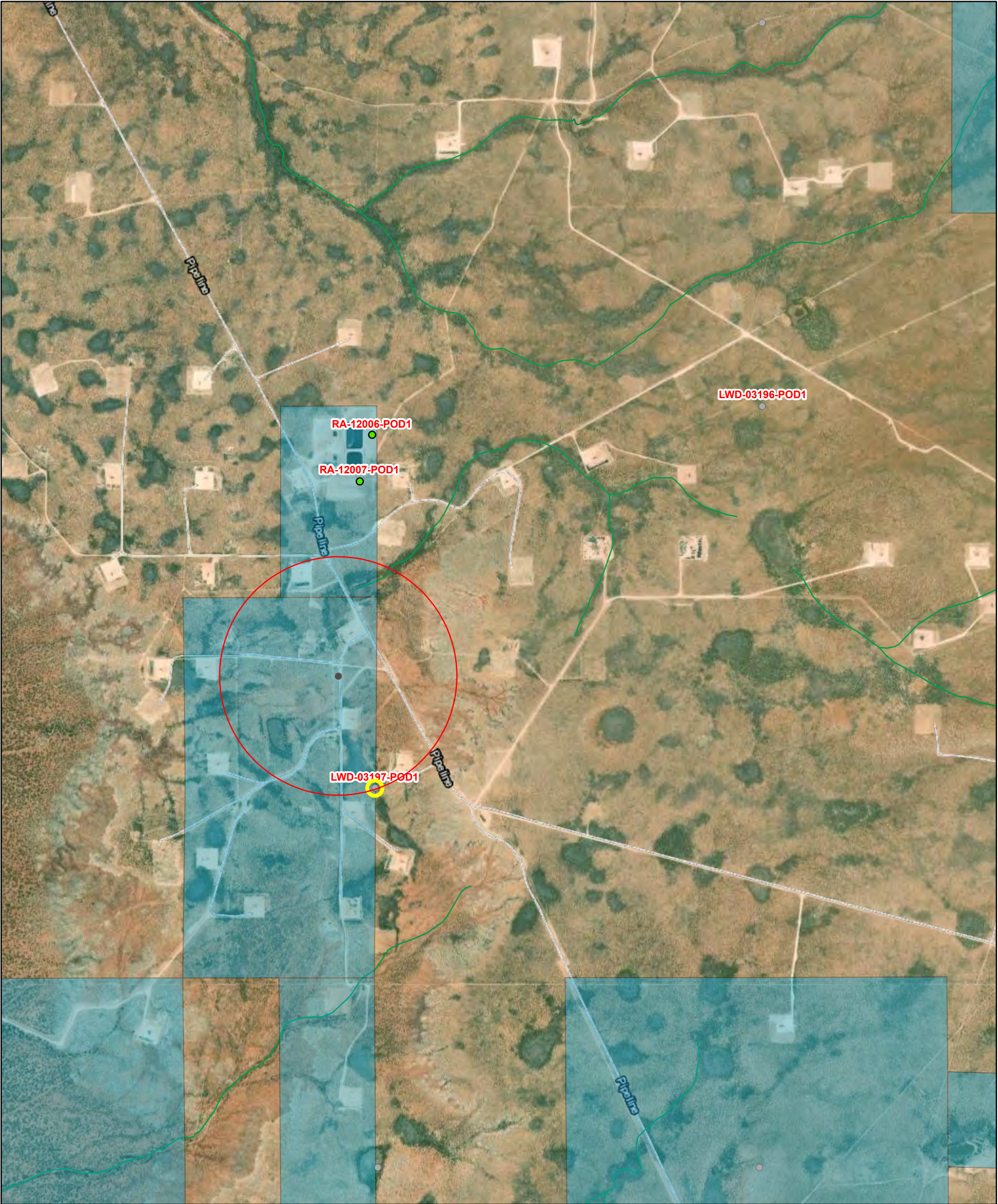
POINT OF DIVERSION SUMMARY

Legend

- L14514 POD1-8,643-77 FT
- RA09248-8,499-45 FT
- RA10280-8,646-40 FT
- RA12428-6,542-125 FT
- RA12429 POD1-8,151-27 FT
- WEST MOUNT SPILL G



OSE POD Location Map



6/21/2024, 12:19:51 PM

GIS WATERS PODs

- Pending
-

OSE District Boundary

New Mexico State Trust Lands

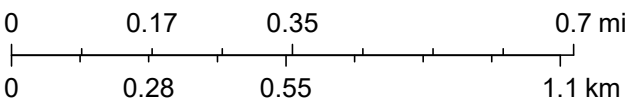
Both Estates

NHD Flowlines

— Artificial Path

— Stream River

1:18,056



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Company Name: MACK**Location Name: WEST MOUNT SPILL G****Release Date:**

SP ID	Depth	Titre	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	80	L	ND	ND	ND	69.7	69.7	ND		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	51.7		
SP2	SURF	2160	L	ND	ND	ND	ND	ND	2330		
	2	1160									
	4	240									
	6	240	L	ND	ND	ND	ND	ND	81.6		
SP3	SURF	1040	L	ND	ND	ND	57.3	57.3	1030		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	87.1		
SP4	SURF	2480	L	ND	ND	ND	ND	ND	3180		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	140		
SP5	SURF	1840	L	ND	ND	ND	ND	ND	2240		
	2	480									
	4	160	L	ND	ND	ND	ND	ND	27.6		
SP6	SURF	1040	L	ND	ND	ND	ND	ND	1190		
	2	400									
	4	400	L	ND	ND	ND	ND	ND	295		
SP7	SURF	1520	L	ND	ND	ND	ND	ND	1410		
	2	480									
	4	400	L	ND	ND	ND	ND	ND	324		
SP8	SURF	2000	L	ND	ND	ND	ND	ND	2670		
	2	160									

	4	160	L	ND	ND	ND	ND	ND	142		
SP9	SURF	1120	L	ND	ND	ND	ND	ND	819		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP10	SURF	2400	L	ND	ND	ND	ND	ND	2640		
	2	400									
	4	240	L	ND	ND	ND	ND	ND	ND		
SW1	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW2	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW3	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	240									
	2	240	L	ND	ND	ND	ND	ND	63.1		
SW4	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	400									
	2	240	L	ND	ND	ND	ND	ND	64.6		
SW5	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	24.1		
SW6	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	25		

SW7	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	24.8		
SW8	SURF	1680	L	ND	ND	ND	ND	ND	829		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW9	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	240									
	2	240	L	ND	ND	ND	ND	ND	158		
SW10	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW11	SURF	160	L	ND	ND	ND	ND	ND	75.1		
	1	240									
	2	240	L	ND	ND	ND	ND	ND	21.8		
SW12	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		

MACK ENERGY

WEST MOUNT SPILL G
DELINEATION MAP

Legend

- HORIZONTAL SAMPLE POINTS
- █ Mack Energy- West Mount Spill G- 6293 SQ. FT.
- VERTICAL SAMPLE POINTS



COMPANY: MACK ENERGY**LOCATION: WEST MOUNT SPILL G**

POINT	LATITUDE	LONGITUDE
SP1	32.991153°	-104.069757°
SP2	32.991052°	-104.069690°
SP3	32.991046°	-104.069773°
SP4	32.990934°	-104.069762°
SP5	32.990891°	-104.069679°
SP6	32.990826°	-104.069718°
SP7	32.990749°	-104.069738°
SP8	32.990687°	-104.069710°
SP9	32.990610°	-104.069713°
SP10	32.990532°	-104.069701°
SW1	32.991149°	-104.069677°
SW2	32.991003°	-104.069667°
SW3	32.990890°	-104.069663°
SW4	32.990761°	-104.069669°
SW5	32.990623°	-104.069687°
SW6	32.990510°	-104.069677°
SW7	32.990514°	-104.069724°
SW8	32.990607°	-104.069736°
SW9	32.990753°	-104.069772°
SW10	32.990888°	-104.069763°
SW11	32.991081°	-104.069794°
SW12	32.991202°	-104.069761°

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1 Frack Line Spill -G-

Work Order: E311183

Job Number: 20046-0001

Received: 11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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.
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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: 11/22/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount #1 Frack Line Spill -G-
Workorder: E311183
Date Received: 11/21/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: West Mount #1 Frack Line Spill -G-.

The analytical test results summarized in this report with the Project Name: West Mount #1 Frack Line Spill -G- 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

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount #1 Frack Line Spill -G- Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/22/23 16:30
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 1-Surf	E311183-01A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 2-Surf	E311183-02A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 3-Surf	E311183-03A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 4-Surf	E311183-04A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 5-Surf	E311183-05A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 6-Surf	E311183-06A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 7-Surf	E311183-07A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 8-Surf	E311183-08A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 9-Surf	E311183-09A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SP 10-Surf	E311183-10A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount #1 Frack Line Spill -G- Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/22/2023 4:30:59PM
--	--	--

SP 1-Surf

E311183-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	69.7	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane	99.8 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	ND	20.0	1	11/21/23	11/21/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 2-Surf

E311183-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	2330	40.0	2	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 3-Surf

E311183-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.4 %	70-130	11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	57.3	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>		98.6 %	50-200	11/21/23	11/22/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2347067
Chloride	1030	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 4-Surf

E311183-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	3180	40.0	2	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 5-Surf

E311183-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	93.7 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	2240	40.0	2	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 6-Surf

E311183-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	1190	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 7-Surf

E311183-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	92.9 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	1410	40.0	2	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 8-Surf

E311183-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	91.1 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	2670	40.0	2	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 9-Surf

E311183-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	95.9 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	819	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/22/2023 4:30:59PM

SP 10-Surf

E311183-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347067
Chloride	2640	40.0	2	11/21/23	11/22/23	



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:30:59PM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2347065-BLK1)

Prepared: 11/21/23 Analyzed: 11/22/23

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	7.33		8.00		91.6	70-130			

LCS (2347065-BS1)

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	4.93	0.0250	5.00		98.7	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

Matrix Spike (2347065-MS1)

Source: E311183-06

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	4.43	0.0250	5.00	ND	88.7	54-133			
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133			
Toluene	4.94	0.0250	5.00	ND	98.7	61-130			
o-Xylene	5.12	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.3	70-130			

Matrix Spike Dup (2347065-MSD1)

Source: E311183-06

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	4.39	0.0250	5.00	ND	87.8	54-133	1.01	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	0.276	20	
Toluene	4.91	0.0250	5.00	ND	98.2	61-130	0.592	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	0.290	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.396	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	0.361	20	
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:30:59PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2347065-BLK1) Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

LCS (2347065-BS2) Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2347065-MS2) Source: E311183-06 Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

Matrix Spike Dup (2347065-MSD2) Source: E311183-06 Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	1.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:30:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2347071-BLK1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2347071-BS1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike (2347071-MS1)					Source: E311132-05		Prepared: 11/21/23 Analyzed: 11/22/23		
Diesel Range Organics (C10-C28)	292	25.0	250	26.9	106	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike Dup (2347071-MSD1)					Source: E311132-05		Prepared: 11/21/23 Analyzed: 11/22/23		
Diesel Range Organics (C10-C28)	304	25.0	250	26.9	111	38-132	3.91	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:30:59PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2347067-BLK1)					Prepared: 11/21/23 Analyzed: 11/21/23				
Chloride	ND	20.0							
LCS (2347067-BS1)					Prepared: 11/21/23 Analyzed: 11/21/23				
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2347067-MS1)					Source: E311181-01		Prepared: 11/21/23 Analyzed: 11/21/23		
Chloride	288	200	250	ND	115	80-120			
Matrix Spike Dup (2347067-MSD1)					Source: E311181-01		Prepared: 11/21/23 Analyzed: 11/21/23		
Chloride	277	200	250	ND	111	80-120	3.99	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

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:30

- 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.



Project Information

Chain of Custody

Page 6 of 1

Client: <u>Maul Energy</u>				Bill To				Lab Use Only				TAT				EPA Program					
Project: <u>West Mary #1 Frack Line Sh. 11 G</u>				Attention: ENERGY STAFFING SERVICES				Lab WO# <u>E 311183</u>				Job Number <u>200460001</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager:				Address: 2724 NW COUNTY RD				Analysis and Method													
Address:				City, State, Zip <u>HOBBS, NM 88240</u>																	RCRA
City, State, Zip				Phone: 575-393-9048																	
Phone:				Email: NATALIE@ENERGYSTAFFINGLLC.COM																	
Email:				BRITTNEY@ENERGYSTAFFINGLLC.COM																	
Report due by:																					
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX								
	11/18/23	S	1	SP 1 - Surf	1							X									
				SP 2 - Surf	2																
				SP 3 - Surf	3																
				SP 4 - Surf	4																
				SP 5 - Surf	5																
				SP 6 - Surf	6																
				SP 7 - Surf	7																
				SP 8 - Surf	8																
				SP 9 - Surf	9																
	11/18/23	S	1	SP 10 - Surf	10							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.						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.					
Sampled by: <u>Juan Solis</u>											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<u>Juan Solis</u>	11/18/23		<u>[Signature]</u>	11/20/23	1430	Received on ice: <u>Y</u> / N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____					
<u>[Signature]</u>	11/20/23	1730	<u>[Signature]</u>	11/20/23	2420						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>					
<u>[Signature]</u>	11/20/23	1830	<u>[Signature]</u>	11/21/23	7:30						
Sample Matrix: S - Soil, SD - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											

Envirotech Analytical Laboratory

Printed: 11/21/2023 11:32:19AM

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:	Mack Energy	Date Received:	11/21/23 07:30	Work Order ID:	E311183
Phone:	(575) 390-6397	Date Logged In:	11/20/23 16:29	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/22/23 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC; Natalie Gladden.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1 Frack Line Spill -G-

Work Order: E311184

Job Number: 20046-0001

Received: 11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/27/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/27/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount #1 Frack Line Spill -G-
Workorder: E311184
Date Received: 11/21/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: West Mount #1 Frack Line Spill -G-.

The analytical test results summarized in this report with the Project Name: West Mount #1 Frack Line Spill -G- 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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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount #1 Frack Line Spill -G- Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/27/23 09:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 1-Surf	E311184-01A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 2-Surf	E311184-02A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 3-Surf	E311184-03A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 4-Surf	E311184-04A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 5-Surf	E311184-05A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 6-Surf	E311184-06A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 7-Surf	E311184-07A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 8-Surf	E311184-08A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 9-Surf	E311184-09A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 10-Surf	E311184-10A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 11-Surf	E311184-11A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 12-Surf	E311184-12A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount #1 Frack Line Spill -G- Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/27/2023 9:45:59AM
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SW 1-Surf

E311184-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2347064	
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.5 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2347064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.3 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2347072	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>	89.6 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2347068	
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 2-Surf

E311184-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.7 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	88.7 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 3-Surf

E311184-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		11/21/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	87.0 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported: 11/27/2023 9:45:59AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

SW 4-Surf

E311184-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2347064	
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.1 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2347064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.0 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2347072	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>	89.8 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2347068	
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 5-Surf

E311184-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.4 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	88.2 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 6-Surf

E311184-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane	86.0 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 7-Surf

E311184-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	88.5 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 8-Surf

E311184-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	87.3 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	829	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 9-Surf

E311184-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	84.9 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 10-Surf

E311184-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 11-Surf

E311184-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	75.1	20.0	1	11/21/23	11/22/23	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount #1 Frack Line Spill -G-
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
11/27/2023 9:45:59AM

SW 12-Surf

E311184-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/21/23	11/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347068
Chloride	ND	20.0	1	11/21/23	11/22/23	



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 9:45:59AM

Volatile Organics by EPA 8021B

Analyst: RAS

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 (2347064-BLK1)

Prepared: 11/21/23 Analyzed: 11/22/23

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	7.02		8.00		87.8	70-130			

LCS (2347064-BS1)

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	4.13	0.0250	5.00		82.6	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.7	70-130			
Toluene	4.68	0.0250	5.00		93.7	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.7	0.0250	15.0		97.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.8	70-130			

Matrix Spike (2347064-MS1)

Source: E311184-02

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	3.76	0.0250	5.00	ND	75.2	54-133			
Ethylbenzene	4.47	0.0250	5.00	ND	89.3	61-133			
Toluene	4.37	0.0250	5.00	ND	87.5	61-130			
o-Xylene	4.59	0.0250	5.00	ND	91.9	63-131			
p,m-Xylene	9.26	0.0500	10.0	ND	92.6	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.5	70-130			

Matrix Spike Dup (2347064-MSD1)

Source: E311184-02

Prepared: 11/21/23 Analyzed: 11/22/23

Benzene	4.08	0.0250	5.00	ND	81.6	54-133	8.11	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.3	61-133	9.63	20	
Toluene	4.80	0.0250	5.00	ND	95.9	61-130	9.25	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	10.0	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	9.42	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	9.62	20	
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.0	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 9:45:59AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

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 (2347064-BLK1) Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

LCS (2347064-BS2) Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

Matrix Spike (2347064-MS2) Source: E311184-02 Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike Dup (2347064-MSD2) Source: E311184-02 Prepared: 11/21/23 Analyzed: 11/22/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	10.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 9:45:59AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2347072-BLK1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	50-200			

LCS (2347072-BS1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

Matrix Spike (2347072-MS1)					Source: E311179-03		Prepared: 11/21/23 Analyzed: 11/22/23		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

Matrix Spike Dup (2347072-MSD1)					Source: E311179-03		Prepared: 11/21/23 Analyzed: 11/22/23		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	0.720	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 9:45:59AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2347068-BLK1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Chloride	ND	20.0							
LCS (2347068-BS1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Chloride	247	20.0	250		99.0	90-110			
Matrix Spike (2347068-MS1)					Source: E311184-01		Prepared: 11/21/23 Analyzed: 11/22/23		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2347068-MSD1)					Source: E311184-01		Prepared: 11/21/23 Analyzed: 11/22/23		
Chloride	250	20.0	250	ND	100	80-120	0.697	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

Mack Energy	Project Name:	West Mount #1 Frack Line Spill -G-	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/23 09:45

- 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.

Project Information

Chain of Custody

Page 1 of 2

Client: <u>Mack Energy</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>West Mount #1 Fork Line SP: "G"</u>		Attention: <u>ENERGY STAFFING SERVICES</u>		Lab WO# <u>311184</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: <u>2724 NW COUNTY RD</u>		Analysis and Method									
Address:		City, State, Zip <u>HOBBS, NM 88240</u>											RCRA
City, State, Zip		Phone: <u>575-393-9048</u>											
Phone:		Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>											
Email:		BRITTNEY@ENERGYSTAFFINGLLC.COM											
Report due by:													

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
	11/18/23	S	1	SW 1 - Surf	1							X		
				SW 2 - Surf	2									
				SW 3 - Surf	3									
				SW 4 - Surf	4									
				SW 5 - Surf	5									
				SW 6 - Surf	6									
				SW 7 - Surf	7									
				SW 8 - Surf	8									
				SW 9 - Surf	9									
	11/18/23	S	1	SW 10 - Surf	10							X		

Additional Instructions:

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

Sampled by: Juan Solis

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
<u>Juan Solis</u>	11/18/23		<u>[Signature]</u>	11/20/23	1430	Received on ice: <u>(V) / N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<u>[Signature]</u>	11/20/23	1730	<u>[Signature]</u>	11/20/23	2420	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<u>[Signature]</u>	11/20/23	1830	<u>[Signature]</u>	11/21/23	7:30	AVG Temp °C <u>4</u>

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



Chain of Custody

[illegible]

Additional Instructions:

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

Sampled by: John Solis

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.

Date or time of collection is considered fraud and may be grounds for legal action.		Sampled by: <u>Jan 1/23</u>		Lab Use Only	
Relinquished by: (Signature) <u>John Solis</u>	Date <u>11/18/23</u>	Time	Received by: (Signature) <u>[Signature]</u>	Date <u>11/20/23</u>	Time <u>1430</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>11/20/23</u>	Time <u>1730</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11/20/23</u>	Time <u>2420</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>11/20/23</u>	Time <u>1830</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11/21/23</u>	Time <u>730</u>
Example Matrix: S - Soil, G - Solid, L - Liquid, A - Aerosol, O - Other <u>Solid</u>				Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	

Sample Matrix: S - Soil, Sc - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 11/21/2023 11:38:35AM

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:	Mack Energy	Date Received:	11/21/23 07:30	Work Order ID:	E311184
Phone:	(575) 390-6397	Date Logged In:	11/20/23 16:37	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/22/23 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC; Natalie Gladden.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill G

Work Order: E406262

Job Number: 20046-0001

Received: 7/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/2/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill G
Workorder: E406262
Date Received: 7/1/2024 10:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/1/2024 10:30:00AM, under the Project Name: West Mount Spill G.

The analytical test results summarized in this report with the Project Name: West Mount Spill G 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

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/02/24 13:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-4	E406262-01A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SP2-6	E406262-02A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SP3-4	E406262-03A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SP4-4	E406262-04A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SP5-4	E406262-05A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SP6-4	E406262-06A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.
SP7-4	E406262-07A	Soil	06/27/24	07/01/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill G	Reported: 7/2/2024 1:13:13PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

SP1-4
E406262-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427010	
Chloride	51.7	20.0	1	07/01/24	07/01/24	

Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/2/2024 1:13:13PM

SP2-6

E406262-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427010	
Chloride	81.6	20.0	1	07/01/24	07/01/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/2/2024 1:13:13PM

SP3-4

E406262-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	97.6 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427010	
Chloride	87.1	20.0	1	07/01/24	07/01/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/2/2024 1:13:13PM

SP4-4

E406262-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427005
Benzene	ND	0.0250	1	07/01/24	07/01/24	
Ethylbenzene	ND	0.0250	1	07/01/24	07/01/24	
Toluene	ND	0.0250	1	07/01/24	07/01/24	
o-Xylene	ND	0.0250	1	07/01/24	07/01/24	
p,m-Xylene	ND	0.0500	1	07/01/24	07/01/24	
Total Xylenes	ND	0.0250	1	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427005
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2427009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427010
Chloride	140	20.0	1	07/01/24	07/01/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/2/2024 1:13:13PM

SP5-4

E406262-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Benzene	ND	0.0500	2	07/01/24	07/01/24	
Ethylbenzene	ND	0.0500	2	07/01/24	07/01/24	
Toluene	ND	0.0500	2	07/01/24	07/01/24	
o-Xylene	ND	0.0500	2	07/01/24	07/01/24	
p,m-Xylene	ND	0.100	2	07/01/24	07/01/24	
Total Xylenes	ND	0.0500	2	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	95.8 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427010	
Chloride	27.6	20.0	1	07/01/24	07/01/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/2/2024 1:13:13PM

SP6-4

E406262-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Benzene	ND	0.0500	2	07/01/24	07/01/24	
Ethylbenzene	ND	0.0500	2	07/01/24	07/01/24	
Toluene	ND	0.0500	2	07/01/24	07/01/24	
o-Xylene	ND	0.0500	2	07/01/24	07/01/24	
p,m-Xylene	ND	0.100	2	07/01/24	07/01/24	
Total Xylenes	ND	0.0500	2	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427010	
Chloride	295	40.0	2	07/01/24	07/01/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/2/2024 1:13:13PM

SP7-4

E406262-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Benzene	ND	0.0500	2	07/01/24	07/01/24	
Ethylbenzene	ND	0.0500	2	07/01/24	07/01/24	
Toluene	ND	0.0500	2	07/01/24	07/01/24	
o-Xylene	ND	0.0500	2	07/01/24	07/01/24	
p,m-Xylene	ND	0.100	2	07/01/24	07/01/24	
Total Xylenes	ND	0.0500	2	07/01/24	07/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427005	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/01/24	07/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		07/01/24	07/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2427009	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/01/24	07/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/01/24	07/01/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/01/24	07/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427010	
Chloride	324	40.0	2	07/01/24	07/01/24	



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/2/2024 1:13:13PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2427005-BLK1) Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

LCS (2427005-BS1) Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	4.71	0.0250	5.00		94.3	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.0	70-130			
Toluene	4.76	0.0250	5.00		95.3	70-130			
o-Xylene	4.71	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.50	0.0500	10.0		95.0	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			

Matrix Spike (2427005-MS1) Source: E406266-02 Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	4.68	0.0250	5.00	ND	93.6	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	91.0	61-133			
Toluene	4.71	0.0250	5.00	ND	94.3	61-130			
o-Xylene	4.65	0.0250	5.00	ND	93.0	63-131			
p,m-Xylene	9.38	0.0500	10.0	ND	93.8	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2427005-MSD1) Source: E406266-02 Prepared: 07/01/24 Analyzed: 07/01/24

Benzene	4.89	0.0250	5.00	ND	97.9	54-133	4.43	20	
Ethylbenzene	4.76	0.0250	5.00	ND	95.1	61-133	4.50	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	4.49	20	
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131	4.61	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	4.52	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	4.55	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/2/2024 1:13:13PM

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 (2427005-BLK1) Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

LCS (2427005-BS2) Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			

Matrix Spike (2427005-MS2) Source: E406266-02 Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			

Matrix Spike Dup (2427005-MSD2) Source: E406266-02 Prepared: 07/01/24 Analyzed: 07/01/24

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	0.196	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.58		8.00		107	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/2/2024 1:13:13PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427009-BLK1) Prepared: 07/01/24 Analyzed: 07/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			

LCS (2427009-BS1) Prepared: 07/01/24 Analyzed: 07/01/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2427009-MS1) Source: E406262-07 Prepared: 07/01/24 Analyzed: 07/01/24

Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			

Matrix Spike Dup (2427009-MSD1) Source: E406262-07 Prepared: 07/01/24 Analyzed: 07/01/24

Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132	1.18	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/2/2024 1:13:13PM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2427010-BLK1)					Prepared: 07/01/24 Analyzed: 07/01/24				
Chloride	ND	20.0							
LCS (2427010-BS1)					Prepared: 07/01/24 Analyzed: 07/01/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2427010-MS1)					Source: E406262-02		Prepared: 07/01/24 Analyzed: 07/01/24		
Chloride	333	20.0	250	81.6	101	80-120			
Matrix Spike Dup (2427010-MSD1)					Source: E406262-02		Prepared: 07/01/24 Analyzed: 07/01/24		
Chloride	335	20.0	250	81.6	102	80-120	0.688	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

Mack Energy	Project Name:	West Mount Spill G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/02/24 13:13

- 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.



Page 1 of 1

Project Information

Chain of Custody

Client: <u>Maack Energy</u>				Bill To				Lab Use Only				TAT				EPA Program																											
Project: <u>Westmont Spill G</u>				Attention: <u>ENERGY STAFFING SERVICES</u>				Lab WO# <u>E406262</u>				Job Number <u>20046-0001</u>				1D	2D	3D	Standard	CWA	SDWA																						
Project Manager:				Address: <u>2724 NW COUNTY RD</u>				Analysis and Method								RCRA																											
Address:				City, State, Zip <u>HOBBS, NM 88240</u>																																							
City, State, Zip				Phone: <u>575-393-9048</u>				DRO/DRO by 8015				GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 3000				BGDOC NM				BGDOC TX				State			
Phone:				Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>																																							
Email:				BRITTNEY@ENERGYSTAFFINGLLC.COM				NM				CO				UT				AZ				TX																			
Report due by:																																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																					
	6/27/24	S	1	Sp1-4	1																																						
				Sp2-6	2																																						
				Sp3-4	3																																						
				Sp4-4	4																																						
				Sp5-4	5																																						
				Sp6-4	6																																						
	6/29/24	S	1	Sp7-4	7																																						
Additional Instructions:																																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										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) <u>Andy Taruga</u>										Received by: (Signature) <u>Michelle Gonzales</u>																																	
Date <u>6/27/24</u>										Date <u>6-28-24</u>																																	
Time <u>1303</u>										Time <u>1630</u>																																	
Relinquished by: (Signature) <u>Michelle Gonzales</u>										Received by: (Signature) <u>Michelle Gonzales</u>																																	
Date <u>6-28-24</u>										Date <u>6-28-24</u>																																	
Time <u>1630</u>										Time <u>1630</u>																																	
Relinquished by: (Signature) <u>Michelle Gonzales</u>										Received by: (Signature) <u>Alexa Michaels</u>																																	
Date <u>6-28-24</u>										Date <u>7/1/24</u>																																	
Time <u>2230</u>										Time <u>1030</u>																																	
Sample Matrix: S - Soil, Sc - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																	
Note: Samples are discarded 30 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: 7/1/2024 11:28:25AM

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:	Mack Energy	Date Received:	07/01/24 10:30	Work Order ID:	E406262
Phone:	(575) 390-6397	Date Logged In:	06/28/24 15:37	Logged In By:	Raina Schwanz
Email:	Natalie@energystaffingllc.com	Due Date:	07/02/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CouierComments/Resolution

Project manager and time samples not on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill G

Work Order: E407006

Job Number: 20046-0001

Received: 7/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/3/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/3/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount Spill G
Workorder: E407006
Date Received: 7/2/2024 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/2/2024 10:00:00AM, under the Project Name: West Mount Spill G.

The analytical test results summarized in this report with the Project Name: West Mount Spill G 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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/03/24 09:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp 8-4	E407006-01A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
Sp 9-4	E407006-02A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
Sp 10-4	E407006-03A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:30:29AM

Sp 8-4

E407006-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0500	2	07/02/24	07/02/24	
Ethylbenzene	ND	0.0500	2	07/02/24	07/02/24	
Toluene	ND	0.0500	2	07/02/24	07/02/24	
o-Xylene	ND	0.0500	2	07/02/24	07/02/24	
p,m-Xylene	ND	0.100	2	07/02/24	07/02/24	
Total Xylenes	ND	0.0500	2	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427023	
Chloride	142	20.0	1	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:30:29AM

Sp 9-4

E407006-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	87.9 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427023	
Chloride	ND	100	5	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:30:29AM

Sp 10-4

E407006-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0500	2	07/02/24	07/02/24	
Ethylbenzene	ND	0.0500	2	07/02/24	07/02/24	
Toluene	ND	0.0500	2	07/02/24	07/02/24	
o-Xylene	ND	0.0500	2	07/02/24	07/02/24	
p,m-Xylene	ND	0.100	2	07/02/24	07/02/24	
Total Xylenes	ND	0.0500	2	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	88.1 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427023	
Chloride	ND	20.0	1	07/02/24	07/02/24	



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:30:29AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2427021-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

LCS (2427021-BS1) Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.71	0.0250	5.00		94.1	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.5	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

LCS Dup (2427021-BSD1) Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.69	0.0250	5.00		93.9	70-130	0.267	20	
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130	0.162	20	
Toluene	4.76	0.0250	5.00		95.2	70-130	0.355	20	
o-Xylene	4.72	0.0250	5.00		94.3	70-130	0.141	20	
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130	0.0824	20	
Total Xylenes	14.3	0.0250	15.0		95.4	70-130	0.102	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:30:29AM

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 (2427021-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2427021-BS2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

LCS Dup (2427021-BSD2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130	5.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:30:29AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2427022-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

LCS (2427022-BS1) Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	49.6		50.0		99.3	50-200			

Matrix Spike (2427022-MS1) Source: E407004-05 Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike Dup (2427022-MSD1) Source: E407004-05 Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	2.85	20	
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:30:29AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2427023-BLK1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	ND	20.0							
LCS (2427023-BS1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2427023-MS1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	305	20.0	250	50.7	102	80-120			
Matrix Spike Dup (2427023-MSD1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	304	20.0	250	50.7	101	80-120	0.363	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

Mack Energy	Project Name:	West Mount Spill G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/03/24 09:30

- 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

[illegible]

Envirotech Analytical Laboratory

Printed: 7/2/2024 10:20:27AM

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:	Mack Energy	Date Received:	07/02/24 10:00	Work Order ID:	E407006
Phone:	(575) 390-6397	Date Logged In:	07/01/24 16:19	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/03/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project manager and time sampled are not provided on the COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill G

Work Order: E407007

Job Number: 20046-0001

Received: 7/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/3/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/3/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount Spill G
Workorder: E407007
Date Received: 7/2/2024 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/2/2024 10:00:00AM, under the Project Name: West Mount Spill G.

The analytical test results summarized in this report with the Project Name: West Mount Spill G 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

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/03/24 09:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-2	E407007-01A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
SW2-2	E407007-02A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
SW3-2	E407007-03A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
SW4-2	E407007-04A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
SW5-2	E407007-05A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
SW6-2	E407007-06A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
SW7-2	E407007-07A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.

Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW1-2

E407007-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	97.4 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427023	
Chloride	ND	100	5	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW2-2

E407007-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427022
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	93.2 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427023
Chloride	ND	200	10	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW3-2

E407007-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0500	2	07/02/24	07/02/24	
Ethylbenzene	ND	0.0500	2	07/02/24	07/02/24	
Toluene	ND	0.0500	2	07/02/24	07/02/24	
o-Xylene	ND	0.0500	2	07/02/24	07/02/24	
p,m-Xylene	ND	0.100	2	07/02/24	07/02/24	
Total Xylenes	ND	0.0500	2	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.0 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.0 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>	103 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2427023	
Chloride	63.1	20.0	1	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW4-2

E407007-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Benzene	ND	0.0500	2	07/02/24	07/02/24	
Ethylbenzene	ND	0.0500	2	07/02/24	07/02/24	
Toluene	ND	0.0500	2	07/02/24	07/02/24	
o-Xylene	ND	0.0500	2	07/02/24	07/02/24	
p,m-Xylene	ND	0.100	2	07/02/24	07/02/24	
Total Xylenes	ND	0.0500	2	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2427023	
Chloride	64.6	20.0	1	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW5-2

E407007-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427022
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427023
Chloride	24.1	20.0	1	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW6-2

E407007-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427022
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	95.6 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427023
Chloride	25.0	20.0	1	07/02/24	07/02/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/3/2024 9:31:15AM

SW7-2

E407007-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2427021
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		07/02/24	07/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427022
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	98.3 %	50-200		07/02/24	07/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2427023
Chloride	24.8	20.0	1	07/02/24	07/02/24	



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:31:15AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2427021-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

LCS (2427021-BS1) Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.71	0.0250	5.00		94.1	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.5	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

LCS Dup (2427021-BSD1) Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.69	0.0250	5.00		93.9	70-130	0.267	20	
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130	0.162	20	
Toluene	4.76	0.0250	5.00		95.2	70-130	0.355	20	
o-Xylene	4.72	0.0250	5.00		94.3	70-130	0.141	20	
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130	0.0824	20	
Total Xylenes	14.3	0.0250	15.0		95.4	70-130	0.102	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:31:15AM

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 (2427021-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2427021-BS2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

LCS Dup (2427021-BSD2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130	5.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:31:15AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2427022-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

LCS (2427022-BS1) Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	49.6		50.0		99.3	50-200			

Matrix Spike (2427022-MS1) Source: E407004-05 Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike Dup (2427022-MSD1) Source: E407004-05 Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	2.85	20	
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/3/2024 9:31:15AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2427023-BLK1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	ND	20.0							
LCS (2427023-BS1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2427023-MS1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	305	20.0	250	50.7	102	80-120			
Matrix Spike Dup (2427023-MSD1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	304	20.0	250	50.7	101	80-120	0.363	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

Mack Energy	Project Name:	West Mount Spill G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/03/24 09:31

- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: <u>MACIE Energy</u>					Bill To					Lab Use Only		TAT			EPA Program							
Project: <u>Westmount Spill</u>					Attention: <u>ENERGY STAFFING SERVICES</u>					Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager:					Address: <u>2724 NW COUNTY RD</u>					<u>E467007</u>	<u>20046-0001</u>		<input checked="" type="checkbox"/>									
Address:					City, State, Zip <u>HOBBS, NM 88240</u>					Analysis and Method								RCRA				
City, State, Zip					Phone: <u>575-393-9048</u>																	
Phone:					Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>													State				
Email:					BRITTNEY@ENERGYSTAFFINGLLC.COM													NM	CO	UT	AZ	TX
Report due by:																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX							
	6/28/24	S	1	SW1-2	1									X								
				SW2-2	2																	
				SW3-2	3																	
				SW4-2	4																	
				SW5-2	5																	
				SW6-2	6																	
	6/28/24	S	1	SW7-2	7									X								

Additional Instructions:

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

Sampled by: Andy Tomaga

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
<u>Andy Tomaga</u>	6/28/24		<u>Michelle Gonzales</u>	7-1-24	1305	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<u>Michelle Gonzales</u>	7-1-24	1550	<u>Andrea</u>	7-1-24	1700	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<u>Andrea</u>	7-1-24	2315	<u>Alexa Michaels</u>	7/2/24	1000	AVG Temp °C <u>4</u>

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 30 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.

 **enviro+tech**

Envirotech Analytical Laboratory

Printed: 7/2/2024 10:20:36AM

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:	Mack Energy	Date Received:	07/02/24 10:00	Work Order ID:	E407007
Phone:	(575) 390-6397	Date Logged In:	07/01/24 16:23	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/03/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project manager and time sampled are not listed on the COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill G

Work Order: E407011

Job Number: 20046-0001

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/8/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/8/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount Spill G
Workorder: E407011
Date Received: 7/3/2024 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: West Mount Spill G.

The analytical test results summarized in this report with the Project Name: West Mount Spill G 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

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/08/24 14:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sw 8-2'	E407011-01A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
Sw 9-2'	E407011-02A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
Sw 10-2'	E407011-03A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
Sw 11-2'	E407011-04A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
Sw 12-2'	E407011-05A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.

Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/8/2024 2:00:35PM

Sw 8-2'

E407011-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0500	2	07/03/24	07/03/24	
Ethylbenzene	ND	0.0500	2	07/03/24	07/03/24	
Toluene	ND	0.0500	2	07/03/24	07/03/24	
o-Xylene	ND	0.0500	2	07/03/24	07/03/24	
p,m-Xylene	ND	0.100	2	07/03/24	07/03/24	
Total Xylenes	ND	0.0500	2	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	ND	20.0	1	07/03/24	07/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/8/2024 2:00:35PM

Sw 9-2'

E407011-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0500	2	07/03/24	07/03/24	
Ethylbenzene	ND	0.0500	2	07/03/24	07/03/24	
Toluene	ND	0.0500	2	07/03/24	07/03/24	
o-Xylene	ND	0.0500	2	07/03/24	07/03/24	
p,m-Xylene	ND	0.100	2	07/03/24	07/03/24	
Total Xylenes	ND	0.0500	2	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	158	20.0	1	07/03/24	07/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/8/2024 2:00:35PM

Sw 10-2'

E407011-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	ND	20.0	1	07/03/24	07/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/8/2024 2:00:35PM

Sw 11-2'

E407011-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0500	2	07/03/24	07/03/24	
Ethylbenzene	ND	0.0500	2	07/03/24	07/03/24	
Toluene	ND	0.0500	2	07/03/24	07/03/24	
o-Xylene	ND	0.0500	2	07/03/24	07/03/24	
p,m-Xylene	ND	0.100	2	07/03/24	07/03/24	
Total Xylenes	ND	0.0500	2	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	40.0	2	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	21.8	20.0	1	07/03/24	07/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/8/2024 2:00:35PM

Sw 12-2'

E407011-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/03/24	07/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	ND	20.0	1	07/03/24	07/03/24	



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/8/2024 2:00:35PM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2427028-BLK1) Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2427028-BS1) Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.61	0.0250	5.00		92.3	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2427028-MS1) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.66	0.0500	10.0	ND	86.6	54-133			
Ethylbenzene	8.89	0.0500	10.0	ND	88.9	61-133			
Toluene	8.92	0.0500	10.0	ND	89.2	61-130			
o-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
p,m-Xylene	18.1	0.100	20.0	ND	90.3	63-131			
Total Xylenes	27.0	0.0500	30.0	ND	89.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.9		16.0		93.4	70-130			

Matrix Spike Dup (2427028-MSD1) Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.72	0.0500	10.0	ND	87.2	54-133	0.741	20	
Ethylbenzene	8.96	0.0500	10.0	ND	89.6	61-133	0.842	20	
Toluene	9.00	0.0500	10.0	ND	89.9	61-130	0.854	20	
o-Xylene	9.01	0.0500	10.0	ND	90.1	63-131	1.07	20	
p,m-Xylene	18.2	0.100	20.0	ND	91.2	63-131	1.02	20	
Total Xylenes	27.3	0.0500	30.0	ND	90.9	63-131	1.04	20	
Surrogate: 4-Bromochlorobenzene-PID	15.1		16.0		94.6	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/8/2024 2:00:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2427028-BLK1)

Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2427028-BS2)

Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2427028-MS2)

Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	96.2	40.0	100	ND	96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.2		16.0		95.0	70-130			

Matrix Spike Dup (2427028-MSD2)

Source: E407011-04 Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	91.8	40.0	100	ND	91.8	70-130	4.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.8	70-130			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/8/2024 2:00:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2427036-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			

LCS (2427036-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Diesel Range Organics (C10-C28)	301	25.0	250		120	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2427036-MS1)					Source: E407011-02		Prepared: 07/03/24 Analyzed: 07/03/24		
Diesel Range Organics (C10-C28)	307	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

Matrix Spike Dup (2427036-MSD1)					Source: E407011-02		Prepared: 07/03/24 Analyzed: 07/03/24		
Diesel Range Organics (C10-C28)	317	25.0	250	ND	127	38-132	3.37	20	
Surrogate: n-Nonane	52.4		50.0		105	50-200			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/8/2024 2:00:35PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2427032-BLK1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	ND	20.0							
LCS (2427032-BS1)					Prepared: 07/03/24 Analyzed: 07/03/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2427032-MS1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120			
Matrix Spike Dup (2427032-MSD1)					Source: E407009-01		Prepared: 07/03/24 Analyzed: 07/03/24		
Chloride	316	20.0	250	58.8	103	80-120	0.0810	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

Mack Energy	Project Name:	West Mount Spill G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/08/24 14:00

- 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.





Envirotech Analytical Laboratory

Printed: 7/3/2024 12:28:09PM

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:	Mack Energy	Date Received:	07/03/24 10:00	Work Order ID:	E407011
Phone:	(575) 390-6397	Date Logged In:	07/02/24 15:15	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/08/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: Couier**Comments/Resolution**

Project manager and time sampled are not listed on the COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill O

Work Order: E407211

Job Number: 20046-0001

Received: 7/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/29/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill O
Workorder: E407211
Date Received: 7/26/2024 5:00:14AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/26/2024 5:00:14AM, under the Project Name: West Mount Spill O.

The analytical test results summarized in this report with the Project Name: West Mount Spill O 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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Cell: 775-287-1762
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill O Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/29/24 13:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP9-8	E407211-01A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP10-8	E407211-02A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP11-6	E407211-03A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP12-6	E407211-04A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP13-16	E407211-05A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP14-6	E407211-06A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP15-4	E407211-07A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
SP16-4	E407211-08A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP9-8

E407211-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2430128	
Benzene	ND	0.0250	1	07/26/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/26/24	
Toluene	ND	0.0250	1	07/26/24	07/26/24	
o-Xylene	ND	0.0250	1	07/26/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	07/26/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2430128	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	07/26/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2430123	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
<i>Surrogate: n-Nonane</i>		124 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2430133	
Chloride	ND	100	5	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP10-8

E407211-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
<i>Surrogate: n-Nonane</i>						
		124 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP11-6

E407211-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
<i>Surrogate: n-Nonane</i>						
		127 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP12-6

E407211-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/26/24	
<i>Surrogate: n-Nonane</i>						
		130 %	50-200	07/26/24	07/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	ND	100	5	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP13-16

E407211-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/27/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/27/24	
Toluene	ND	0.0250	1	07/26/24	07/27/24	
o-Xylene	ND	0.0250	1	07/26/24	07/27/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/27/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	07/26/24	07/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
<i>Surrogate: n-Nonane</i>						
		127 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP14-6

E407211-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
<i>Surrogate: n-Nonane</i>						
		123 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	ND	200	10	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP15-4

E407211-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
<i>Surrogate: n-Nonane</i>						
		128 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	21.0	20.0	1	07/26/24	07/26/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill O
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
7/29/2024 1:17:21PM

SP16-4

E407211-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.8 %	70-130	07/26/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430123
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/27/24	
<i>Surrogate: n-Nonane</i>						
		125 %	50-200	07/26/24	07/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430133
Chloride	ND	20.0	1	07/26/24	07/26/24	



QC Summary Data

Mack Energy	Project Name:	West Mount Spill O	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/29/2024 1:17:21PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430128-BLK1)Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

LCS (2430128-BS1)Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

Matrix Spike (2430128-MS1)Source: E407211-01Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133			
Toluene	5.20	0.0250	5.00	ND	104	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			

Matrix Spike Dup (2430128-MSD1)Source: E407211-01Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.27	0.0250	5.00	ND	105	54-133	0.533	20	
Ethylbenzene	5.11	0.0250	5.00	ND	102	61-133	0.405	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	0.423	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	0.369	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.515	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	0.467	20	
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill O	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/29/2024 1:17:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430128-BLK1) Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS (2430128-BS2) Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2430128-MS2) Source: E407211-01 Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2430128-MSD2) Source: E407211-01 Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	5.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill O	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/29/2024 1:17:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430123-BLK1) Prepared: 07/26/24 Analyzed: 07/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.3		50.0		115	50-200			

LCS (2430123-BS1) Prepared: 07/26/24 Analyzed: 07/26/24

Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			

Matrix Spike (2430123-MS1) Source: E407211-02 Prepared: 07/26/24 Analyzed: 07/26/24

Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	62.7		50.0		125	50-200			

Matrix Spike Dup (2430123-MSD1) Source: E407211-02 Prepared: 07/26/24 Analyzed: 07/26/24

Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132	1.46	20	
Surrogate: n-Nonane	61.9		50.0		124	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill O	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/29/2024 1:17:21PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2430133-BLK1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	ND	20.0							
LCS (2430133-BS1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2430133-MS1)					Source: E407210-05		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	292	200	250	ND	117	80-120			
Matrix Spike Dup (2430133-MSD1)					Source: E407210-05		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	297	200	250	ND	119	80-120	1.70	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

Mack Energy	Project Name:	West Mount Spill O	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/29/24 13:17

- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: <u>Mack Energy</u>				Bill To				Lab Use Only:				TAT				EPA Program	
Project: <u>Westmount Spill G</u>				Attention: ENERGY STAFFING SERVICES				Lab WO# <u>E407211</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:				Address: 2724 NW COUNTY RD				Analysis and Method								RCRA	
Address:				City, State, Zip HOBBS, NM 88240													
City, State, Zip				Phone: 575-393-9048													
Phone:				Email: NATALIE@ENERGYSTAFFINGLLC.COM													
Email:				BRITTNEY@ENERGYSTAFFINGLLC.COM													
Report due by:																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks			
	7/24/24	S	1	SP9-8	1							X					
				SP10-8	2												
				SP11-6	3												
				SP12-6	4												
				SP13-6	5												
				SP14-6	6												
				SP15-4	7												
	7/24/24	S	1	SP16-4	8							X					

Additional Instructions:

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

Sampled by: Andy Tonger

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: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Andy Tonger</u>	7/24/24		<u>Michelle Gonzales</u>	7-25-24	1245	
<u>Michelle Gonzales</u>	7-25-24	1550	<u>Andrew Hobbs</u>	7-25-24	1845	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Andrew Hobbs</u>	7-25-24	2400	<u>Michelle Gonzales</u>	7-26-24	0500	

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 30 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: 7/26/2024 9:25:36AM

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:	Mack Energy	Date Received:	07/26/24 05:00	Work Order ID:	E407211
Phone:	(575) 390-6397	Date Logged In:	07/25/24 15:52	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	07/29/24 17:00 (1 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

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

Carrier: CourierComments/Resolution

Project manager and time sampled are missing in COC by client.

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? No
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



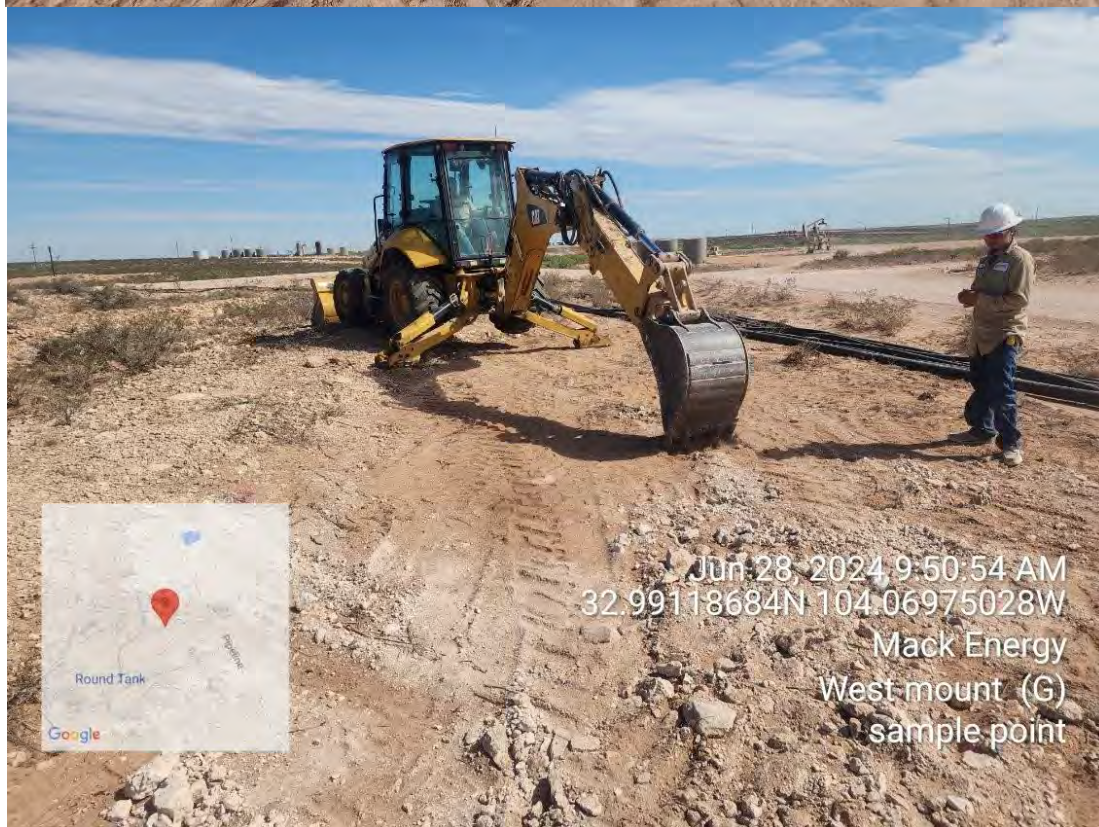
envirotech Inc.

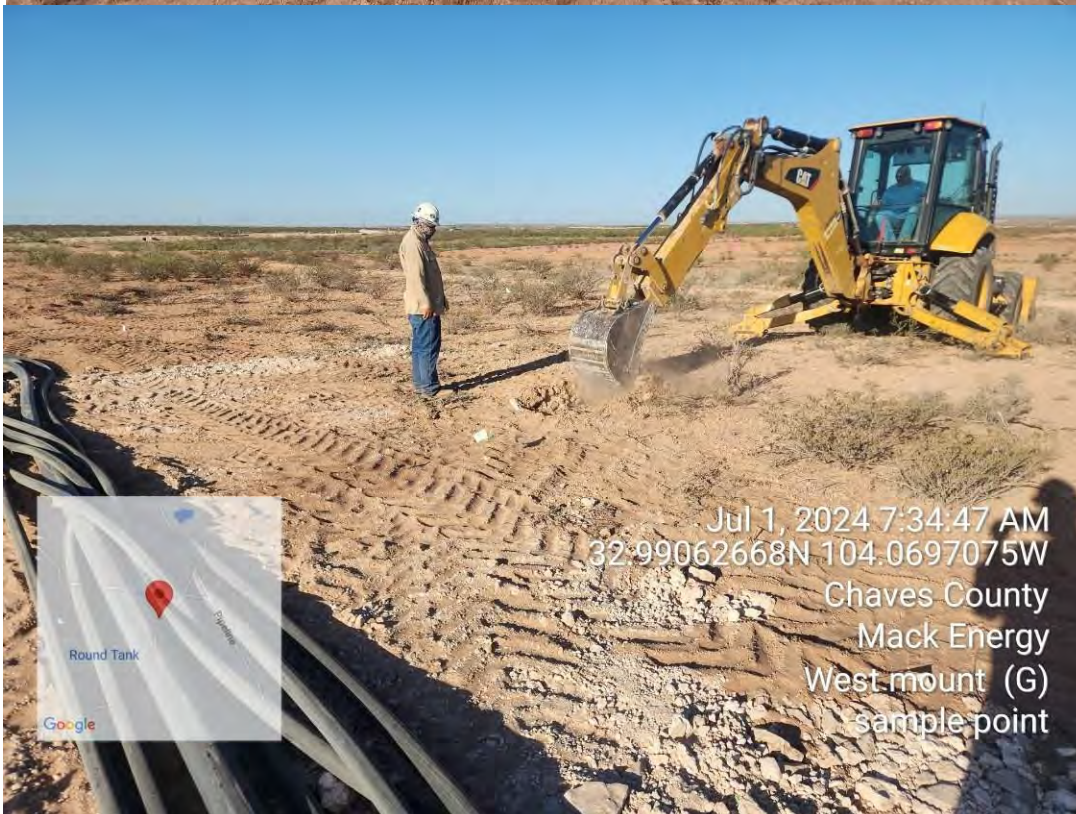
**MACK ENERGY: WEST MOUNT SPILL G
DELINEATION SITE PHOTOS**















From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Monday, August 19, 2024 2:50 PM

To: Natalie Gladden <natalie@energystaffingllc.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 375258

To whom it may concern (c/o Natalie Gladden for MACK ENERGY CORP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2329735127.

The sampling event is expected to take place:

When: 08/22/2024 @ 07:00

Where: C-30-15S-29E 0 FNL 0 FEL (32.99116,-104.069688)

Additional Information: CONTACT NATALIE GLADDEN 575-390-6397

Additional Instructions: CONTACT NATALIE GLADDEN 575-390-6397

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC.

Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Company: MACK ENERGY**Location:** WEST MOUNT SPILL G**Release Date:**

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
COMP1	4	160	L	ND	ND	ND	ND	ND	35		
COMP2	4	240	L	ND	ND	ND	ND	ND	91.9		
COMP3	6	160	L	ND	ND	ND	ND	ND	30.4		
COMP4	6	320	L	ND	ND	ND	ND	ND	118		
COMP5	6	160	L	ND	ND	ND	ND	ND	34.8		
COMP6	6	320	L	ND	ND	ND	ND	ND	115		
COMP7	6	240	L	ND	ND	ND	ND	ND	63.9		
COMP8	4	240	L	ND	ND	ND	ND	ND	66.2		
COMP9	4	160	L	ND	ND	ND	ND	ND	33.2		
COMP10	4	240	L	ND	ND	ND	ND	ND	78.2		
COMP11	4	240	L	ND	ND	ND	ND	ND	104		
COMP12	4	320	L	ND	ND	ND	ND	ND	113		
COMP13	4	320	L	ND	ND	ND	ND	ND	170		
COMP14	4	160	L	ND	ND	ND	ND	ND	21.1		
COMP15	4	160	L	ND	ND	ND	ND	ND	ND		
COMP16	4	240	L	ND	ND	ND	ND	ND	101		

COMP17	4	160	L	ND	ND	ND	ND	ND	ND		
COMP18	4	160	L	ND	ND	ND	ND	ND	ND		
COMP19	4	240	L	ND	ND	ND	ND	ND	ND		
COMP20	4	160	L	ND	ND	ND	ND	ND	57.5		
COMP21	4	320	L	ND	ND	ND	ND	ND	171		
COMP22	4	160	L	ND	ND	ND	ND	ND	ND		
COMP23	4	160	L	ND	ND	ND	ND	ND	54.4		
COMP24	4	240	L	ND	ND	ND	ND	ND	ND		
COMP25	4	160	L	ND	ND	ND	ND	ND	ND		
COMP26	4	160	L	ND	ND	ND	ND	ND	ND		
COMP27	4	160	L	ND	ND	ND	ND	ND	ND		
COMP28	4	240	L	ND	ND	ND	ND	ND	95.8		
COMP29	4	160	L	ND	ND	ND	ND	ND	27.2		
COMP30	4	160	L	ND	ND	ND	ND	ND	25.3		
COMP31	4	240	L	ND	ND	ND	ND	ND	139		
COMP32	4	240	L	ND	ND	ND	ND	ND	159		
COMP33	4	240	L	ND	ND	ND	ND	ND	120		

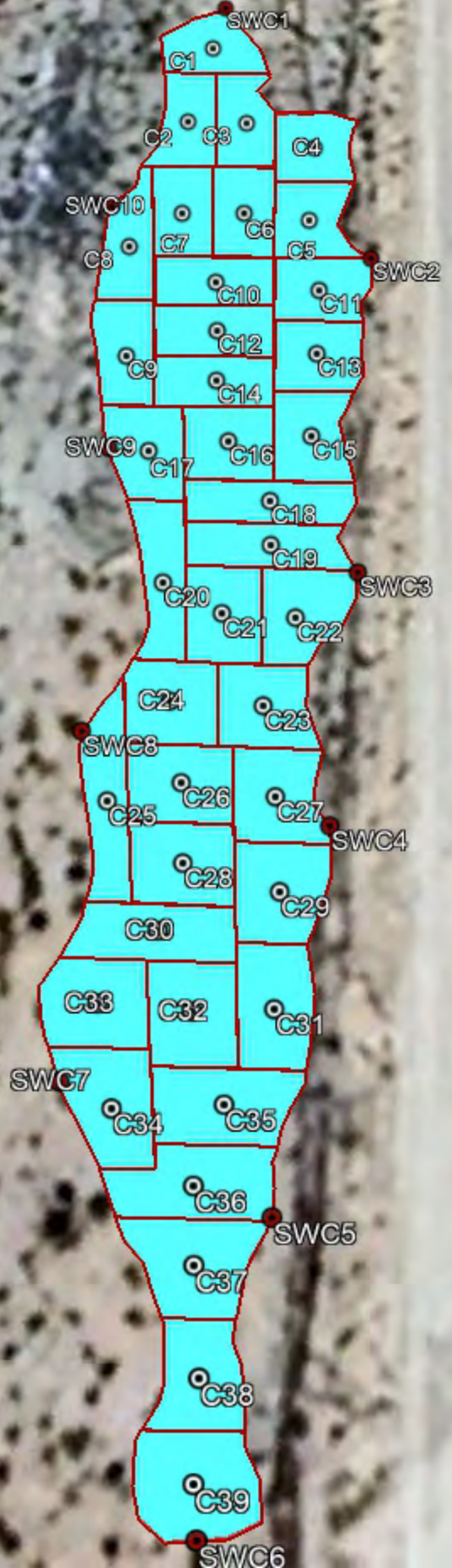
COMP34	4	240	L	ND	ND	ND	ND	ND	116		
COMP35	4	160	L	ND	ND	ND	ND	ND	26.2		
COMP36	4	160	L	ND	ND	ND	ND	ND	27.1		
COMP37	4	240	L	ND	ND	ND	ND	ND	115		
COMP39	4	240	L	ND	ND	ND	ND	ND	117		
SWCOMP1	4	160	L	ND	ND	ND	ND	ND	25		
SWCOMP2	4	240	L	ND	ND	ND	ND	ND	111		
SWCOMP3	4	160	L	ND	ND	ND	ND	ND	25.3		
SWCOMP4	4	320	L	ND	ND	ND	ND	ND	175		
SWCOMP5	4	320	L	ND	ND	ND	ND	ND	179		
SWCOMP6	4	240	L	ND	ND	ND	ND	ND	117		
SWCOMP7	4	240	L	ND	ND	ND	ND	ND	109		
SWCOMP8	4	320	L	ND	ND	ND	ND	ND	188		
SWCOMP9	4	160	L	ND	ND	ND	ND	ND	25.6		
SWCOMP10	4	240	L	ND	ND	ND	ND	ND	115		

MACK ENERGY

WEST MOUNT SPILL G
COMPOSITE MAP

Legend

- COMPOSITES
- SIDEWALL COMPOSITES
- WEST MOUNT SPILL G



COMPANY: MACK ENERGY**LOCATION: WEST MOUNT SPILL G**

POINT	LATITUDE	LONGITUDE
C1	32.991191°	-104.069763°
C2	32.991145°	-104.069773°
C3	32.991145°	-104.069740°
C4	32.991131°	-104.069701°
C5	32.991088°	-104.069701°
C6	32.991091°	-104.069737°
C7	32.991090°	-104.069771°
C8	32.991070°	-104.069798°
C9	32.991009°	-104.069793°
C10	32.991051°	-104.069749°
C11	32.991048°	-104.069693°
C12	32.991024°	-104.069746°
C13	32.991013°	-104.069692°
C14	32.990997°	-104.069744°
C15	32.990969°	-104.069692°
C16	32.990965°	-104.069735°
C17	32.990959°	-104.069776°
C18	32.990935°	-104.069711°
C19	32.990913°	-104.069709°
C20	32.990893°	-104.069762°
C21	32.990879°	-104.069731°
C22	32.990878°	-104.069694°
C23	32.990836°	-104.069707°
C24	32.990837°	-104.069753°
C25	32.990791°	-104.069779°
C26	32.990800°	-104.069744°
C27	32.990795°	-104.069698°
C28	32.990765°	-104.069740°
C29	32.990754°	-104.069693°
C30	32.990736°	-104.069749°
C31	32.990705°	-104.069692°
C32	32.990703°	-104.069730°
C33	32.990705°	-104.069774°
C34	32.990663°	-104.069763°
C35	32.990666°	-104.069712°
C36	32.990634°	-104.069723°
C37	32.990604°	-104.069720°
C38	32.990563°	-104.069714°
C39	32.990526°	-104.069713°
SWC1	32.991217°	-104.069758°
SWC2	32.991067°	-104.069666°

SWC3	32.990901°	-104.069664°
SWC4	32.990783°	-104.069671°
SWC5	32.990623°	-104.069687°
SWC6	32.990507°	-104.069710°
SWC7	32.990673°	-104.069788°
SWC8	32.990822°	-104.069795°
SWC9	32.990960°	-104.069797°
SWC10	32.991093°	-104.069810°

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount G

Work Order: E408245

Job Number: 20046-0001

Received: 8/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/30/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/30/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount G
Workorder: E408245
Date Received: 8/29/2024 8:00:24AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2024 8:00:24AM, under the Project Name: West Mount G.

The analytical test results summarized in this report with the Project Name: West Mount G 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount G Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 08/30/24 14:51
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. Comp. 1-4'	E408245-01A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 2-4'	E408245-02A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 3-6'	E408245-03A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 4-6'	E408245-04A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 5-6'	E408245-05A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 6-6'	E408245-06A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 7-6'	E408245-07A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 8-4'	E408245-08A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 9-4'	E408245-09A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 10-4'	E408245-10A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 11-4'	E408245-11A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.
SP. Comp. 12-4'	E408245-12A	Soil	08/27/24	08/29/24	Glass Jar, 2 oz.



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 1-4'

E408245-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.4 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.5 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>	84.3 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	35.0	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 2-4'

E408245-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435097
Benzene	ND	0.0500	2	08/29/24	08/29/24	
Ethylbenzene	ND	0.0500	2	08/29/24	08/29/24	
Toluene	ND	0.0500	2	08/29/24	08/29/24	
o-Xylene	ND	0.0500	2	08/29/24	08/29/24	
p,m-Xylene	ND	0.100	2	08/29/24	08/29/24	
Total Xylenes	ND	0.0500	2	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435097
Gasoline Range Organics (C6-C10)	ND	40.0	2	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435090
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>						
	74.0 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435094
Chloride	91.9	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 3-6'

E408245-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.9 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.7 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>	83.5 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	30.4	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 4-6'

E408245-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0500	2	08/29/24	08/29/24	
Ethylbenzene	ND	0.0500	2	08/29/24	08/29/24	
Toluene	ND	0.0500	2	08/29/24	08/29/24	
o-Xylene	ND	0.0500	2	08/29/24	08/29/24	
p,m-Xylene	ND	0.100	2	08/29/24	08/29/24	
Total Xylenes	ND	0.0500	2	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	40.0	2	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>						
	77.7 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	118	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 5-6'

E408245-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.3 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.5 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>	79.8 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	34.8	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 6-6'

E408245-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0500	2	08/29/24	08/29/24	
Ethylbenzene	ND	0.0500	2	08/29/24	08/29/24	
Toluene	ND	0.0500	2	08/29/24	08/29/24	
o-Xylene	ND	0.0500	2	08/29/24	08/29/24	
p,m-Xylene	ND	0.100	2	08/29/24	08/29/24	
Total Xylenes	ND	0.0500	2	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	40.0	2	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	115	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 7-6'

E408245-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	63.9	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 8-4'

E408245-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>						
	85.6 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	66.2	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 9-4'

E408245-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.9 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>	85.2 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	33.2	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 10-4'

E408245-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/29/24	
<i>Surrogate: n-Nonane</i>						
	81.5 %	50-200		08/29/24	08/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	78.2	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 11-4'

E408245-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0250	1	08/29/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/29/24	08/29/24	
Toluene	ND	0.0250	1	08/29/24	08/29/24	
o-Xylene	ND	0.0250	1	08/29/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/29/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/30/24	
<i>Surrogate: n-Nonane</i>						
	87.9 %	50-200		08/29/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	104	20.0	1	08/29/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
8/30/2024 2:51:37PM

SP. Comp. 12-4'

E408245-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Benzene	ND	0.0500	2	08/29/24	08/29/24	
Ethylbenzene	ND	0.0500	2	08/29/24	08/29/24	
Toluene	ND	0.0500	2	08/29/24	08/29/24	
o-Xylene	ND	0.0500	2	08/29/24	08/29/24	
p,m-Xylene	ND	0.100	2	08/29/24	08/29/24	
Total Xylenes	ND	0.0500	2	08/29/24	08/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435097	
Gasoline Range Organics (C6-C10)	ND	40.0	2	08/29/24	08/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		08/29/24	08/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435090	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/29/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/29/24	08/30/24	
<i>Surrogate: n-Nonane</i>						
	82.1 %	50-200		08/29/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435094	
Chloride	113	20.0	1	08/29/24	08/30/24	



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/30/2024 2:51:37PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2435097-BLK1) Prepared: 08/29/24 Analyzed: 08/29/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			

LCS (2435097-BS1) Prepared: 08/29/24 Analyzed: 08/29/24

Benzene	5.37	0.0250	5.00		107	70-130			
Ethylbenzene	5.20	0.0250	5.00		104	70-130			
Toluene	5.30	0.0250	5.00		106	70-130			
o-Xylene	5.18	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2435097-MS1) Source: E408245-09 Prepared: 08/29/24 Analyzed: 08/29/24

Benzene	5.39	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.19	0.0250	5.00	ND	104	61-133			
Toluene	5.30	0.0250	5.00	ND	106	61-130			
o-Xylene	5.18	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			

Matrix Spike Dup (2435097-MSD1) Source: E408245-09 Prepared: 08/29/24 Analyzed: 08/29/24

Benzene	5.52	0.0250	5.00	ND	110	54-133	2.55	20	
Ethylbenzene	5.33	0.0250	5.00	ND	107	61-133	2.76	20	
Toluene	5.44	0.0250	5.00	ND	109	61-130	2.63	20	
o-Xylene	5.32	0.0250	5.00	ND	106	63-131	2.72	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	2.66	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	2.68	20	
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/30/2024 2:51:37PM

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 (2435097-BLK1) Prepared: 08/29/24 Analyzed: 08/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

LCS (2435097-BS2) Prepared: 08/29/24 Analyzed: 08/29/24

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike (2435097-MS2) Source: E408245-09 Prepared: 08/29/24 Analyzed: 08/29/24

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2435097-MSD2) Source: E408245-09 Prepared: 08/29/24 Analyzed: 08/29/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	3.58	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/30/2024 2:51:37PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435090-BLK1)					Prepared: 08/29/24 Analyzed: 08/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.7		50.0		77.4	50-200			

LCS (2435090-BS1)					Prepared: 08/29/24 Analyzed: 08/29/24				
Diesel Range Organics (C10-C28)	185	25.0	250		74.1	38-132			
Surrogate: n-Nonane	41.5		50.0		82.9	50-200			

Matrix Spike (2435090-MS1)					Source: E408245-03		Prepared: 08/29/24 Analyzed: 08/29/24		
Diesel Range Organics (C10-C28)	193	25.0	250	ND	77.3	38-132			
Surrogate: n-Nonane	42.7		50.0		85.4	50-200			

Matrix Spike Dup (2435090-MSD1)					Source: E408245-03		Prepared: 08/29/24 Analyzed: 08/29/24		
Diesel Range Organics (C10-C28)	205	25.0	250	ND	81.9	38-132	5.72	20	
Surrogate: n-Nonane	44.5		50.0		88.9	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/30/2024 2:51:37PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2435094-BLK1)					Prepared: 08/29/24 Analyzed: 08/30/24				
Chloride	ND	20.0							
LCS (2435094-BS1)					Prepared: 08/29/24 Analyzed: 08/30/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2435094-MS1)					Source: E408245-03		Prepared: 08/29/24 Analyzed: 08/30/24		
Chloride	284	20.0	250	30.4	102	80-120			
Matrix Spike Dup (2435094-MSD1)					Source: E408245-03		Prepared: 08/29/24 Analyzed: 08/30/24		
Chloride	284	20.0	250	30.4	101	80-120	0.127	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

Mack Energy	Project Name:	West Mount G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/30/24 14:51

- 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.



Project Information

Chain of Custody

Client: Mack Energy				Bill To				Lab Use Only				TAT				EPA Program			
Project: West Mount G				Attention: ENERGY STAFFING SERVICES				Lab WO# 408245				Job Number 20046-0521				CWA			
Project Manager:				Address: 2724 NW COUNTY RD								ID				SDWA			
Address:				City, State, Zip HOBBS, NM 88240								2D				RCRA			
City, State, Zip				Phone: 575-393-9048								3D				Standard			
Phone:				Email: NATALIE@ENERGYSTAFFINGLLC.COM												State			
Email:				Email: BRITTNEY@ENERGYSTAFFINGLLC.COM												NM CO UT AZ TX			
Report due by:																Remarks			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	BGDOC 1X				
	08/27	S	1	Sp. Comp. 1-4'	1							✓					
				Sp. Comp. 2-4'	2							✓					
				Sp. Comp. 3-6'	3							✓					
				Sp. Comp. 4-6'	4							✓					
				Sp. Comp. 5-6'	5							✓					
				Sp. Comp. 6-6'	6							✓					
				Sp. Comp. 7-6'	7							✓					
				Sp. Comp. 8-4'	8							✓					
				Sp. Comp. 9-4'	9							✓					
	08/27	S	1	Sp. Comp. 10-4'	10							✓					

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: **Sandra Perez**

Relinquished by: (Signature) **S. Perez** Date **08/27/24** Time

Received by: (Signature) **Michelle Gonzales** Date **8-28-24** Time **1400**

Relinquished by: (Signature) **Michelle Gonzales** Date **8-28-24** Time **1710**

Received by: (Signature) **Canden Briggs** Date **8-28-24** Time **1710**

Relinquished by: (Signature) **Canden Briggs** Date **8-29-24** Time **0135**

Received by: (Signature) **Roxie Lehman** Date **8/29/24** Time **8:00**

Lab Use Only

Received on ice: **Y** / N

T1 T2 T3

AVG Temp °C **4**

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 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.

[illegible]

Envirotech Analytical Laboratory

Printed: 8/29/2024 8:43:51AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Mack Energy	Date Received:	08/29/24 08:00	Work Order ID:	E408245
Phone:	(575) 390-6397	Date Logged In:	08/28/24 16:07	Logged In By:	Raina Schwanz
Email:	Natalie@energystaffingllc.com	Due Date:	08/30/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: Courier**Comments/Resolution**

Project manager and time sampled not marked on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount G

Work Order: E408257

Job Number: 20046-0001

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/3/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/3/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount G
Workorder: E408257
Date Received: 8/30/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: West Mount G.

The analytical test results summarized in this report with the Project Name: West Mount G 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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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount G	Reported: 09/03/24 15:19
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. Comp. 13-4'	E408257-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 14-4'	E408257-02A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 15-4'	E408257-03A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 16-4'	E408257-04A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 17-4'	E408257-05A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 18-4'	E408257-06A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 19-4'	E408257-07A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 20-4'	E408257-08A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 21-4'	E408257-09A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 22-4'	E408257-10A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 23-4'	E408257-11A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 24-4'	E408257-12A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 25-4'	E408257-13A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 26-4'	E408257-14A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 27-4'	E408257-15A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SP. Comp. 28-4'	E408257-16A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 13-4'

E408257-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	170	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 14-4'

E408257-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435113
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435113
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435110
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435116
Chloride	21.1	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 15-4'

E408257-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 16-4'

E408257-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	101	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy	Project Name:	West Mount G	Reported: 9/3/2024 3:19:46PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

SP. Comp. 17-4'
E408257-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	89.4 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	09/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 18-4'

E408257-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	90.1 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	09/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 19-4'

E408257-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	88.7 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 20-4'

E408257-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0500	2	08/30/24	08/30/24	
Ethylbenzene	ND	0.0500	2	08/30/24	08/30/24	
Toluene	ND	0.0500	2	08/30/24	08/30/24	
o-Xylene	ND	0.0500	2	08/30/24	08/30/24	
p,m-Xylene	ND	0.100	2	08/30/24	08/30/24	
Total Xylenes	ND	0.0500	2	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	40.0	2	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	57.5	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 21-4'

E408257-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0500	2	08/30/24	08/30/24	
Ethylbenzene	ND	0.0500	2	08/30/24	08/30/24	
Toluene	ND	0.0500	2	08/30/24	08/30/24	
o-Xylene	ND	0.0500	2	08/30/24	08/30/24	
p,m-Xylene	ND	0.100	2	08/30/24	08/30/24	
Total Xylenes	ND	0.0500	2	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	40.0	2	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	87.3 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	171	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 22-4'

E408257-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 23-4'

E408257-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	84.7 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	54.4	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 24-4'

E408257-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435113
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435113
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435110
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
		91.0 %	50-200	08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435116
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 25-4'

E408257-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	85.1 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 26-4'

E408257-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	90.4 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 27-4'

E408257-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
		90.6 %	50-200	08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	ND	20.0	1	08/30/24	08/30/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/3/2024 3:19:46PM

SP. Comp. 28-4'

E408257-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435110	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/01/24	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435116	
Chloride	95.8	20.0	1	08/30/24	08/30/24	



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/3/2024 3:19:46PM

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 (2435113-BLK1)Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

LCS (2435113-BS1)Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.2	70-130			

Matrix Spike (2435113-MS1)Source: E408257-13Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	5.20	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

Matrix Spike Dup (2435113-MSD1)Source: E408257-13Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	5.29	0.0250	5.00	ND	106	54-133	1.84	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133	1.92	20	
Toluene	5.23	0.0250	5.00	ND	105	61-130	1.90	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	2.09	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	1.92	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	1.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/3/2024 3:19:46PM

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 (2435113-BLK1) Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			

LCS (2435113-BS2) Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			

Matrix Spike (2435113-MS2) Source: E408257-13 Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			

Matrix Spike Dup (2435113-MSD2) Source: E408257-13 Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130	2.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/3/2024 3:19:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435110-BLK1) Prepared: 08/30/24 Analyzed: 09/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS (2435110-BS1) Prepared: 08/30/24 Analyzed: 09/01/24

Diesel Range Organics (C10-C28)	196	25.0	250		78.3	38-132			
Surrogate: n-Nonane	43.5		50.0		87.1	50-200			

Matrix Spike (2435110-MS1) Source: E408257-07 Prepared: 08/30/24 Analyzed: 09/01/24

Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.7	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike Dup (2435110-MSD1) Source: E408257-07 Prepared: 08/30/24 Analyzed: 09/01/24

Diesel Range Organics (C10-C28)	213	25.0	250	ND	85.2	38-132	4.26	20	
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/3/2024 3:19:46PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435116-BLK1)				Prepared: 08/30/24 Analyzed: 08/30/24					
Chloride	ND	20.0							
LCS (2435116-BS1)				Prepared: 08/30/24 Analyzed: 08/30/24					
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2435116-MS1)				Source: E408257-04		Prepared: 08/30/24 Analyzed: 08/30/24			
Chloride	355	20.0	250	101	101	80-120			
Matrix Spike Dup (2435116-MSD1)				Source: E408257-04		Prepared: 08/30/24 Analyzed: 08/30/24			
Chloride	354	20.0	250	101	101	80-120	0.0708	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

Mack Energy	Project Name:	West Mount G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/03/24 15:19

- 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.



Project Information

Chain of Custody

Client: Mack Energy					Bill To					Lab Use Only					TAT				EPA Program							
Project: West Mount G					Attention: ENERGY STAFFING SERVICES					Lab WO# E408257					Job Number 20046-0001				1D	2D	3D	Standard	CWA	SDWA		
Project Manager:					Address: 2724 NW COUNTY RD					Analysis and Method																
Address:					City, State, Zip HOBBS, NM 88240																					
City, State, Zip					Phone: 575-393-9048																		State			
Phone:					Email: NATALIE@ENERGYSTAFFINGLLC.COM																		NM CO UT AZ TX			
Email:					BRITTNEY@ENERGYSTAFFINGLLC.COM																		Remarks			
Report due by:																										
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	STEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	BGDOC IX													
	08/28	S	1	SP. Comp. 13-4'	1							✓														
				SP. Comp. 14-4'	2							✓														
				SP. Comp. 15-4'	3							✓														
				SP. Comp. 16-4'	4							✓														
				SP. Comp. 17-4'	5							✓														
				SP. Comp. 18-4'	6							✓														
				SP. Comp. 19-4'	7							✓														
				SP. Comp. 20-4'	8							✓														
				SP. Comp. 21-4'	9							✓														
	08/28	S	1	SP. Comp. 22-4'	10							✓														

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: **Sandra Perez**

Relinquished by: (Signature) **S. Perez** Date **8-29-24** Time **1130**

Received by: (Signature) **Michelle Gonzales** Date **8-29-24** Time **1640**

Relinquished by: (Signature) **J.H.** Date **8-29-24** Time **2300**

Received by: (Signature) **Kruph R Hall** Date **8-30-24** Time **0500**

Received on ice: **Y/N**

T1 T2 T3

AVG Temp °C **4**

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 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.

Project Information

Chain of Custody

Client: Mack Energy					Bill To					Lab Use Only					TAT				EPA Program					
Project: West Mount G					Attention: ENERGY STAFFING SERVICES					Lab WO# E408251					Job Number 20046-0001				1D	2D	3D	Standard	CWA	SDWA
Project Manager:					Address: 2724 NW COUNTY RD					Analysis and Method									RCRA					
Address:					City, State, Zip HOBBS, NM 88240																			
City, State, Zip					Phone: 575-393-9048					DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8024 VOC by 8260 Metals 8010 Chloride 8000					NM BGDOC NM BGDOC TX				State					
Phone:					Email: NATALIE@ENERGYSTAFFINGLLC.COM														NM				CO	UT
Email:					Email: BRITTNEY@ENERGYSTAFFINGLLC.COM										Remarks									
Report due by:																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
	08/28	S	1	SP. Comp. 23-4'	11																			
	↓	↓	↓	SP. Comp. 24-4'	12																			
	↓	↓	↓	SP. Comp. 25-4'	13																			
	↓	↓	↓	SP. Comp. 26-4'	14																			
	↓	↓	↓	SP. Comp. 27-4'	15																			
	08/28	S	1	SP. Comp. 28-4'	16																			
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.																								
Samply by: Sandra Perez																								
Relinquished by: (Signature) S. Perez					Date		Time		Received by: (Signature) Michelle Gonzales					Date		Time		Lab Use Only						
Relinquished by: (Signature) Michelle Gonzales					Date		Time		Received by: (Signature) J.H.					Date		Time		Received on ice: 0 / N						
Relinquished by: (Signature) J.H.					Date		Time		Received by: (Signature) Keelynn R. Hall					Date		Time		T1 T2 T3						
					Date		Time							Date		Time		AVG Temp °C 4						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																								
Note: Samples are discarded 30 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: 8/30/2024 9:45:15AM

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:	Mack Energy	Date Received:	08/30/24 07:00	Work Order ID:	E408257
Phone:	(575) 390-6397	Date Logged In:	08/29/24 15:55	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	09/03/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project manager and time sampled are missing on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount G

Work Order: E408280

Job Number: 20046-0001

Received: 9/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/4/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount G
Workorder: E408280
Date Received: 9/3/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/3/2024 5:00:00AM, under the Project Name: West Mount G.

The analytical test results summarized in this report with the Project Name: West Mount G 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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Sample Summary

Mack Energy	Project Name:	West Mount G	Reported: 09/04/24 14:01
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. Comp. 29-4'	E408280-01A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 30-4'	E408280-02A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 31-4'	E408280-03A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 32-4'	E408280-04A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 33-4'	E408280-05A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 34-4'	E408280-06A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 35-4'	E408280-07A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SP. Comp. 36-4'	E408280-08A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 29-4'

E408280-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	27.2	20.0	1	09/03/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 30-4'

E408280-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		09/03/24	09/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	25.3	20.0	1	09/03/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 31-4'

E408280-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>						
	98.3 %	50-200		09/03/24	09/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	139	20.0	1	09/03/24	09/03/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 32-4'

E408280-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0500	2	09/03/24	09/03/24	
Ethylbenzene	ND	0.0500	2	09/03/24	09/03/24	
Toluene	ND	0.0500	2	09/03/24	09/03/24	
o-Xylene	ND	0.0500	2	09/03/24	09/03/24	
p,m-Xylene	ND	0.100	2	09/03/24	09/03/24	
Total Xylenes	ND	0.0500	2	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>						
	92.0 %	50-200		09/03/24	09/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	159	20.0	1	09/03/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 33-4'

E408280-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		09/03/24	09/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	120	20.0	1	09/03/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 34-4'

E408280-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.3 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.3 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>	83.5 %	50-200		09/03/24	09/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	116	20.0	1	09/03/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 35-4'

E408280-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		09/03/24	09/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	26.2	20.0	1	09/03/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/4/2024 2:01:51PM

SP. Comp. 36-4'

E408280-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Benzene	ND	0.0250	1	09/03/24	09/03/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/03/24	
Toluene	ND	0.0250	1	09/03/24	09/03/24	
o-Xylene	ND	0.0250	1	09/03/24	09/03/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/03/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	09/03/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436005	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/03/24	
<i>Surrogate: n-Nonane</i>						
		83.6 %	50-200	09/03/24	09/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436011	
Chloride	27.1	20.0	1	09/03/24	09/04/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount G Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/4/2024 2:01:51PM
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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 (2436010-BLK1)

Prepared: 09/03/24 Analyzed: 09/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.4	70-130			

LCS (2436010-BS1)

Prepared: 09/03/24 Analyzed: 09/03/24

Benzene	5.48	0.0250	5.00		110	70-130			
Ethylbenzene	5.30	0.0250	5.00		106	70-130			
Toluene	5.41	0.0250	5.00		108	70-130			
o-Xylene	5.28	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

Matrix Spike (2436010-MS1)

Source: E408280-07

Prepared: 09/03/24 Analyzed: 09/03/24

Benzene	5.48	0.0250	5.00	ND	110	54-133			
Ethylbenzene	5.29	0.0250	5.00	ND	106	61-133			
Toluene	5.39	0.0250	5.00	ND	108	61-130			
o-Xylene	5.27	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2436010-MSD1)

Source: E408280-07

Prepared: 09/03/24 Analyzed: 09/03/24

Benzene	5.40	0.0250	5.00	ND	108	54-133	1.50	20	
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133	0.967	20	
Toluene	5.33	0.0250	5.00	ND	107	61-130	1.11	20	
o-Xylene	5.21	0.0250	5.00	ND	104	63-131	1.01	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	0.949	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	0.967	20	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/4/2024 2:01:51PM

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 (2436010-BLK1)

Prepared: 09/03/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2436010-BS2)

Prepared: 09/03/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2436010-MS2)

Source: E408280-07 Prepared: 09/03/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2436010-MSD2)

Source: E408280-07 Prepared: 09/03/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130	4.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/4/2024 2:01:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436005-BLK1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			

LCS (2436005-BS1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Diesel Range Organics (C10-C28)	205	25.0	250		82.0	38-132			
Surrogate: n-Nonane	48.3		50.0		96.7	50-200			

Matrix Spike (2436005-MS1)					Source: E408280-04		Prepared: 09/03/24 Analyzed: 09/03/24		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.1	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike Dup (2436005-MSD1)					Source: E408280-04		Prepared: 09/03/24 Analyzed: 09/03/24		
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.7	38-132	2.96	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/4/2024 2:01:51PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2436011-BLK1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Chloride	ND	20.0							
LCS (2436011-BS1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2436011-MS1)					Source: E408280-03		Prepared: 09/03/24 Analyzed: 09/03/24		
Chloride	392	20.0	250	139	101	80-120			
Matrix Spike Dup (2436011-MSD1)					Source: E408280-03		Prepared: 09/03/24 Analyzed: 09/03/24		
Chloride	397	20.0	250	139	104	80-120	1.40	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

Mack Energy	Project Name:	West Mount G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/04/24 14:01

- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: <u>Mack Energy</u>					Bill To					Lab Use Only					TAT				EPA Program																			
Project: <u>West Mount G</u>					Attention: ENERGY STAFFING SERVICES					Lab WO# <u>E408280</u>					Job Number <u>20046-0001</u>				1D	2D	3D	Standard	CWA	SDWA														
Project Manager:					Address: 2724 NW COUNTY RD					Analysis and Method									RCRA																			
Address:					City, State, Zip HOBBS, NM 88240																																	
City, State, Zip					Phone: 575-393-9048					DRO/DRO by 8015					BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX			
Phone:					Email: NATALIE@ENERGYSTAFFINGLLC.COM																																	
Email:					BRITTNEY@ENERGYSTAFFINGLLC.COM					State					NM				CO				UT				AZ				TX							
Report due by:																																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																
	08/29	S	1	SP. Comp. 29-4'	1																																	
	08/29	S	1	SP. Comp. 30-4'	2																																	
	08/29	S	1	SP. Comp. 31-4'	3																																	
	08/29	S	1	SP. Comp. 32-4'	4																																	
	08/29	S	1	SP. Comp. 33-4'	5																																	
	08/29	S	1	SP. Comp. 34-4'	6																																	
	08/29	S	1	SP. Comp. 35-4'	7																																	
	08/29	S	1	SP. Comp. 36-4'	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.

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	
<u>S. Perez</u>		08/29/24	1300	<u>[Signature]</u>		8/30/24	1300	Received on ice: <u>0</u> / N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1	
<u>[Signature]</u>		8/30/24	1500	<u>J.H.</u>		8/30/24	1800	T2	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3	
<u>J.H.</u>		8/30/24	2400	<u>[Signature]</u>		9-3-24	0500	AVG Temp °C <u>4</u>	
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 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 9/3/2024 7:11:39AM

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:	Mack Energy	Date Received:	09/03/24 06:00	Work Order ID:	E408280
Phone:	(575) 390-6397	Date Logged In:	08/30/24 15:45	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	09/04/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project manager and time sampled are missing on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount G

Work Order: E409003

Job Number: 20046-0001

Received: 9/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/5/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount G
Workorder: E409003
Date Received: 9/4/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/4/2024 6:00:00AM, under the Project Name: West Mount G.

The analytical test results summarized in this report with the Project Name: West Mount G 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
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Sample Summary

Mack Energy	Project Name:	West Mount G	Reported: 09/05/24 13:54
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. Comp. 37-4'	E409003-01A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SP. Comp. 38-4'	E409003-02A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 1-4'	E409003-03A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 2-4'	E409003-04A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 3-4'	E409003-05A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 4-4'	E409003-06A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 5-4'	E409003-07A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 6-4'	E409003-08A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 7-4'	E409003-09A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 8-4'	E409003-10A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 9-4'	E409003-11A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.
SW. Comp. 10-4'	E409003-12A	Soil	08/30/24	09/04/24	Glass Jar, 2 oz.



Sample Data

Mack Energy	Project Name:	West Mount G	Reported: 9/5/2024 1:54:51PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

SP. Comp. 37-4'

E409003-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	74.3 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	115	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SP. Comp. 38-4'

E409003-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.4 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>	74.6 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	117	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 1-4'

E409003-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	75.8 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	25.0	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 2-4'

E409003-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	79.6 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	111	20.0	1	09/04/24	09/05/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 3-4'

E409003-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	77.5 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	25.3	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 4-4'

E409003-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.3 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>	77.0 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	175	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 5-4'

E409003-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	79.0 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	179	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 6-4'

E409003-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	73.0 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	117	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 7-4'

E409003-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.1 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>	82.1 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	109	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 8-4'

E409003-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/04/24	
<i>Surrogate: n-Nonane</i>						
	82.3 %	50-200		09/04/24	09/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	188	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 9-4'

E409003-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.6 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.5 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/05/24	
<i>Surrogate: n-Nonane</i>	77.5 %	50-200		09/04/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	25.6	20.0	1	09/04/24	09/04/24	



Sample Data

Mack Energy
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount G
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
9/5/2024 1:54:51PM

SW. Comp. 10-4'

E409003-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Benzene	ND	0.0250	1	09/04/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/04/24	
Toluene	ND	0.0250	1	09/04/24	09/04/24	
o-Xylene	ND	0.0250	1	09/04/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		09/04/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436023	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/05/24	
<i>Surrogate: n-Nonane</i>						
	79.6 %	50-200		09/04/24	09/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436029	
Chloride	115	20.0	1	09/04/24	09/04/24	



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/5/2024 1:54:51PM

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 (2436027-BLK1) Prepared: 09/04/24 Analyzed: 09/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

LCS (2436027-BS1) Prepared: 09/04/24 Analyzed: 09/04/24

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.1	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.88	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike (2436027-MS1) Source: E409003-07 Prepared: 09/04/24 Analyzed: 09/04/24

Benzene	5.18	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			

Matrix Spike Dup (2436027-MSD1) Source: E409003-07 Prepared: 09/04/24 Analyzed: 09/04/24

Benzene	5.18	0.0250	5.00	ND	104	54-133	0.0319	20	
Ethylbenzene	5.00	0.0250	5.00	ND	99.9	61-133	0.104	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	0.00784	20	
o-Xylene	4.98	0.0250	5.00	ND	99.5	63-131	0.282	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.263	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.269	20	
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/5/2024 1:54:51PM

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 (2436027-BLK1) Prepared: 09/04/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

LCS (2436027-BS2) Prepared: 09/04/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0		84.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike (2436027-MS2) Source: E409003-07 Prepared: 09/04/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

Matrix Spike Dup (2436027-MSD2) Source: E409003-07 Prepared: 09/04/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130	0.930	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.2	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/5/2024 1:54:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436023-BLK1) Prepared: 09/04/24 Analyzed: 09/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.2		50.0		68.5	50-200			

LCS (2436023-BS1) Prepared: 09/04/24 Analyzed: 09/04/24

Diesel Range Organics (C10-C28)	196	25.0	250		78.3	38-132			
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

Matrix Spike (2436023-MS1) Source: E409003-06 Prepared: 09/04/24 Analyzed: 09/04/24

Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.3	38-132			
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			

Matrix Spike Dup (2436023-MSD1) Source: E409003-06 Prepared: 09/04/24 Analyzed: 09/04/24

Diesel Range Organics (C10-C28)	205	25.0	250	ND	82.2	38-132	1.04	20	
Surrogate: n-Nonane	40.0		50.0		80.0	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount G	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/5/2024 1:54:51PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436029-BLK1)					Prepared: 09/04/24 Analyzed: 09/04/24				
Chloride	ND	20.0							
LCS (2436029-BS1)					Prepared: 09/04/24 Analyzed: 09/04/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2436029-MS1)					Source: E409003-03		Prepared: 09/04/24 Analyzed: 09/04/24		
Chloride	280	20.0	250	25.0	102	80-120			
Matrix Spike Dup (2436029-MSD1)					Source: E409003-03		Prepared: 09/04/24 Analyzed: 09/04/24		
Chloride	278	20.0	250	25.0	101	80-120	0.670	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

Mack Energy	Project Name:	West Mount G	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/05/24 13:54

- 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.



Client: Mack Energy					Bill To		Lab Use Only		TAT			EPA Program						
Project: West Mount G					Attention: ENERGY STAFFING SERVICES		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
Project Manager:					Address: 2724 NW COUNTY RD		E 409003	20046-0001		<input checked="" type="checkbox"/>								
Address:					City, State, Zip HOBBS, NM 88240		Analysis and Method							RCRA				
City, State, Zip					Phone: 575-393-9048									State				
Phone:					Email: NATALIE@ENERGYSTAFFINGLLC.COM									NM				
Email:					BRITTNEY@ENERGYSTAFFINGLLC.COM									Remarks				
Report due by:																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRQ/GRQ by 8015	BTEX by 8021	VOC by 8160	Metals 6010	Chloride 300.0	AGDOC NM	AGDOC TX					
	08/30	S	1	SP. Comp. 37-4'	1							<input checked="" type="checkbox"/>						
				SP. Comp. 38-4'	2							<input checked="" type="checkbox"/>						
				SW. Comp. 1-4'	3							<input checked="" type="checkbox"/>						
				SW. Comp. 2-4'	4							<input checked="" type="checkbox"/>						
				SW. Comp. 3-4'	5							<input checked="" type="checkbox"/>						
				SW. Comp. 4-4'	6							<input checked="" type="checkbox"/>						
				SW. Comp. 5-4'	7							<input checked="" type="checkbox"/>						
				SW. Comp. 6-4'	8							<input checked="" type="checkbox"/>						
				SW. Comp. 7-4'	9							<input checked="" type="checkbox"/>						
	08/30	S	1	SW. Comp. 8-4'	10							<input checked="" type="checkbox"/>						

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.

Relinquished by: (Signature) S. Pertz Date 9.3.24 Time 1315

Relinquished by: (Signature) Michelle Gonzales Date 9.3.24 Time 1530

Relinquished by: (Signature) Andrew Hesso Date 9.3.24 Time 2130

Relinquished by: (Signature) Kyrlyn R Hesso Date 9.4.24 Time 0600

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 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.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: ☒ Y / ☐ N

T1 T2 T3

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Chain of Custody

Project Information

[illegible]

Envirotech Analytical Laboratory

Printed: 9/4/2024 6:12:40AM

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:	Mack Energy	Date Received:	09/04/24 06:00	Work Order ID:	E409003
Phone:	(575) 390-6397	Date Logged In:	09/03/24 17:24	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	09/05/24 17:00 (1 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project manager and time sampled are missing on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

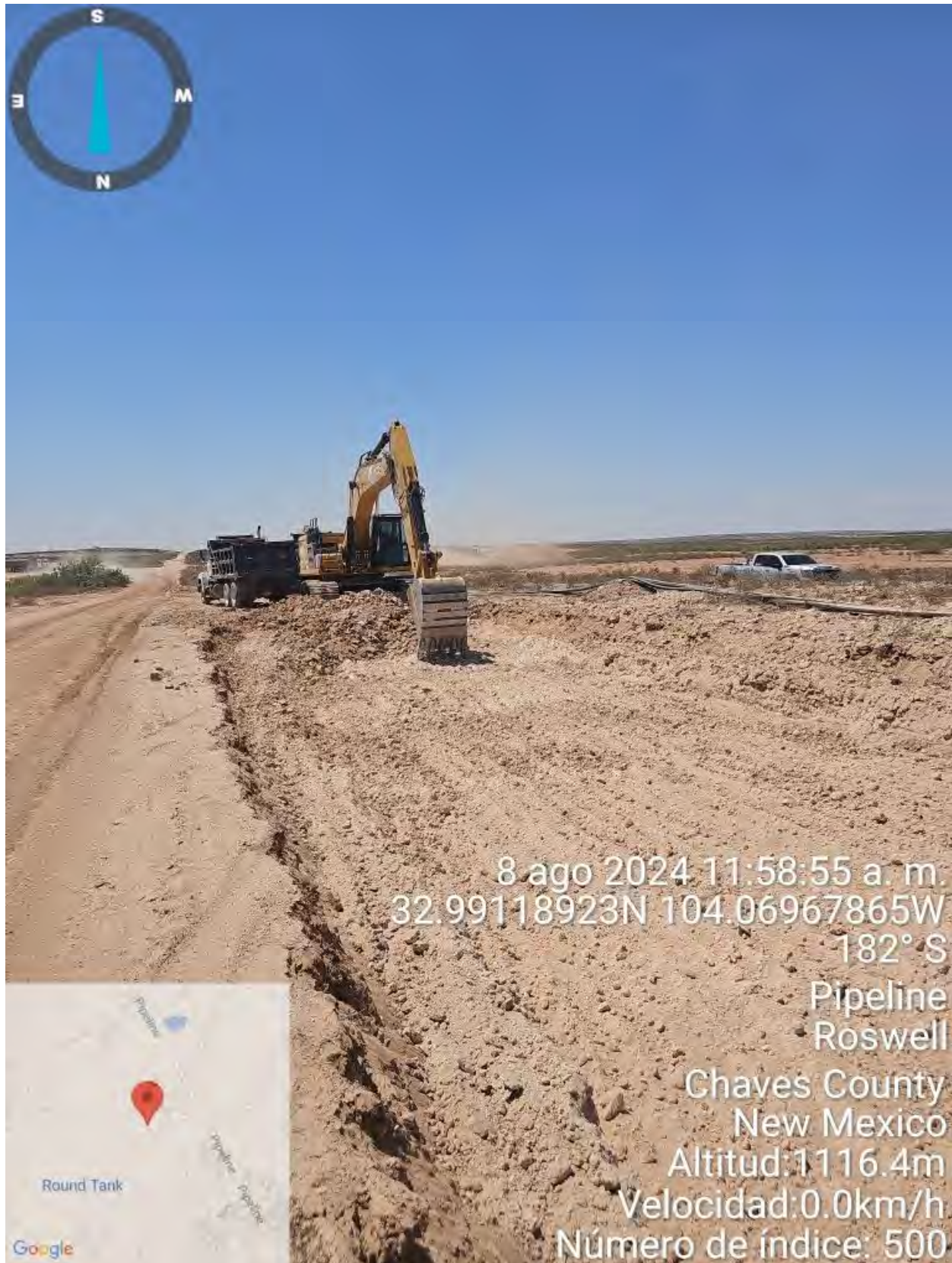
Date



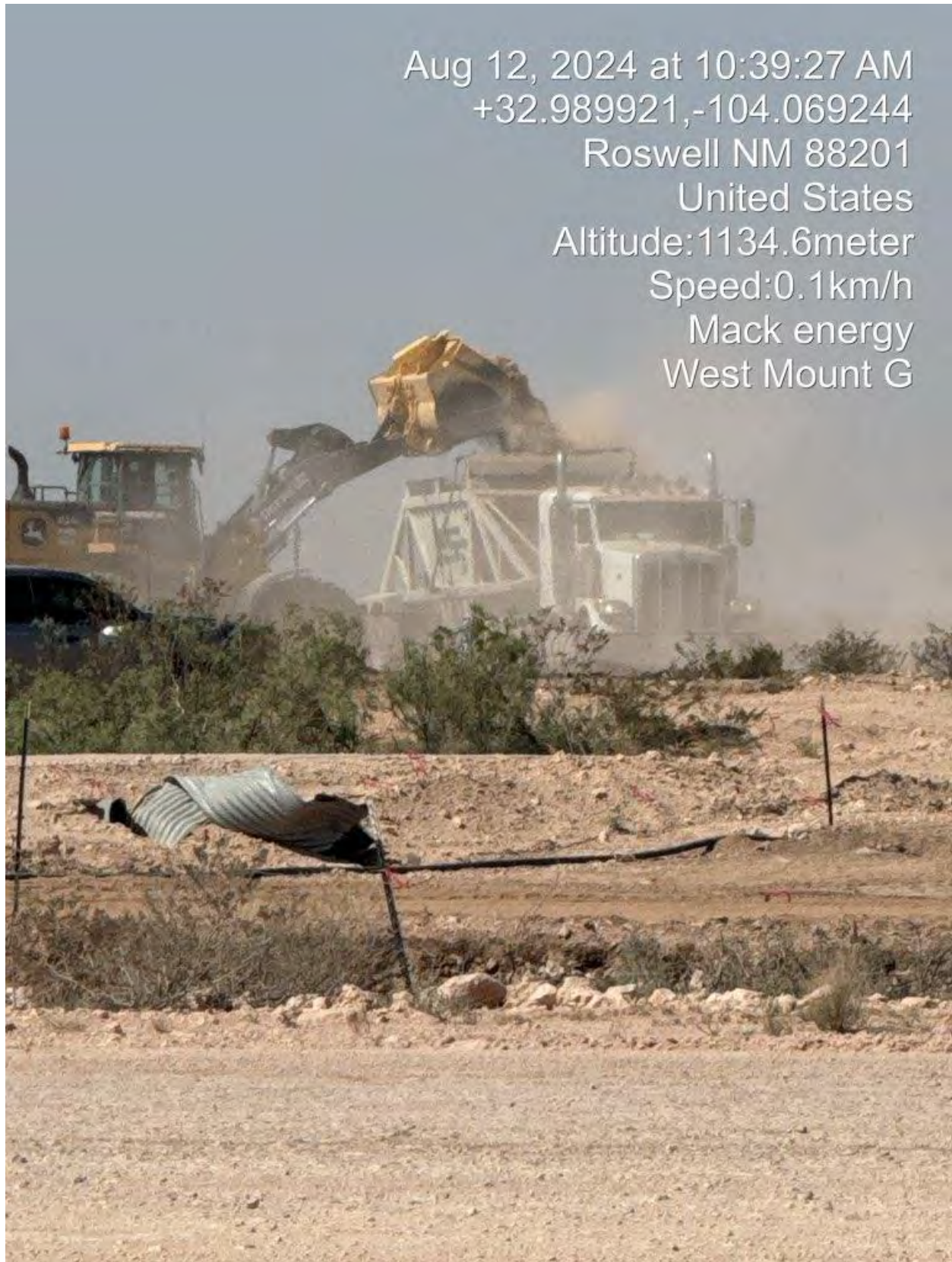
envirotech Inc.

**MACK ENERGY: WEST MOUNT SPILL G
REMEDIATION AND FINAL PHOTOS**

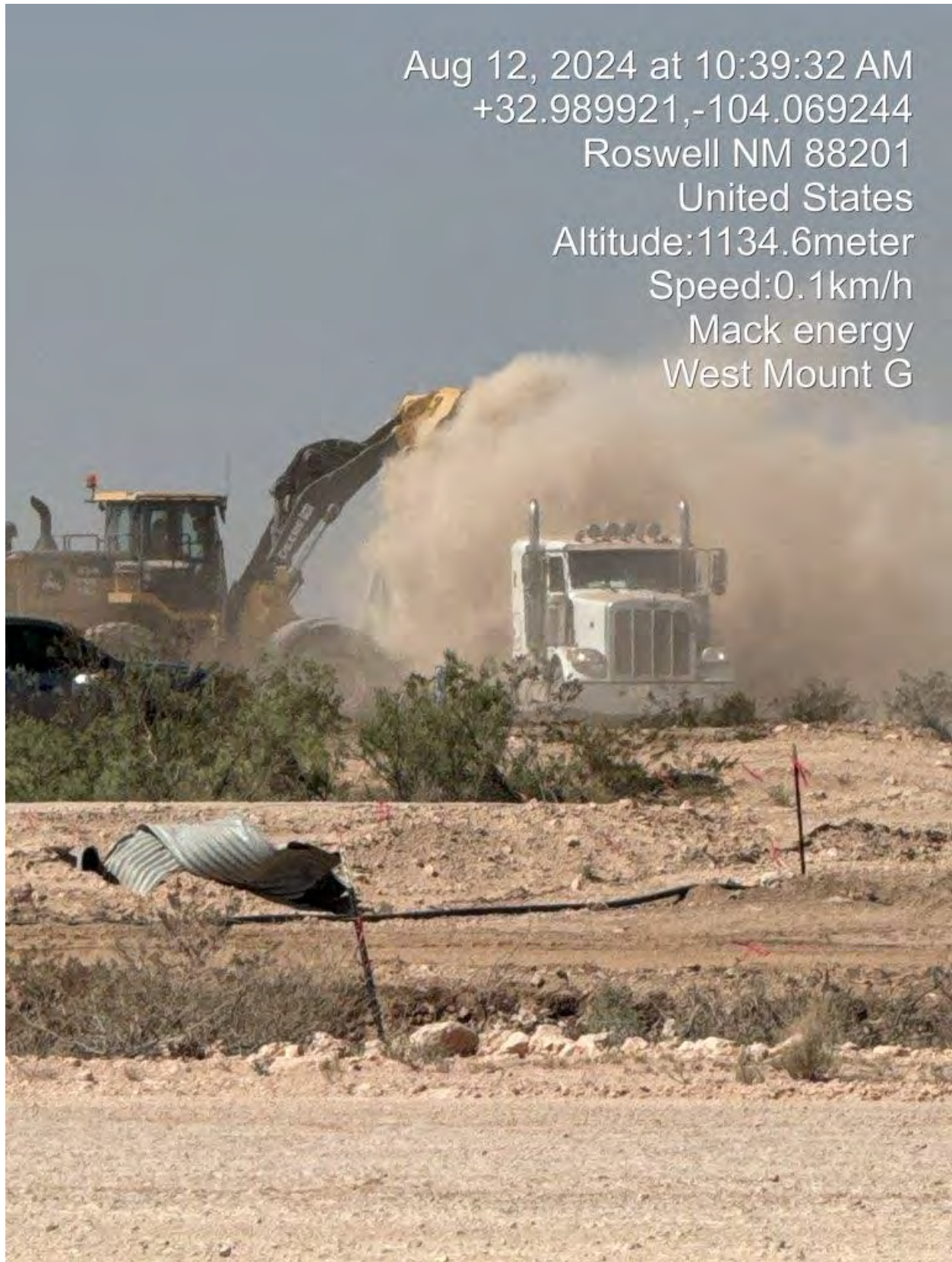


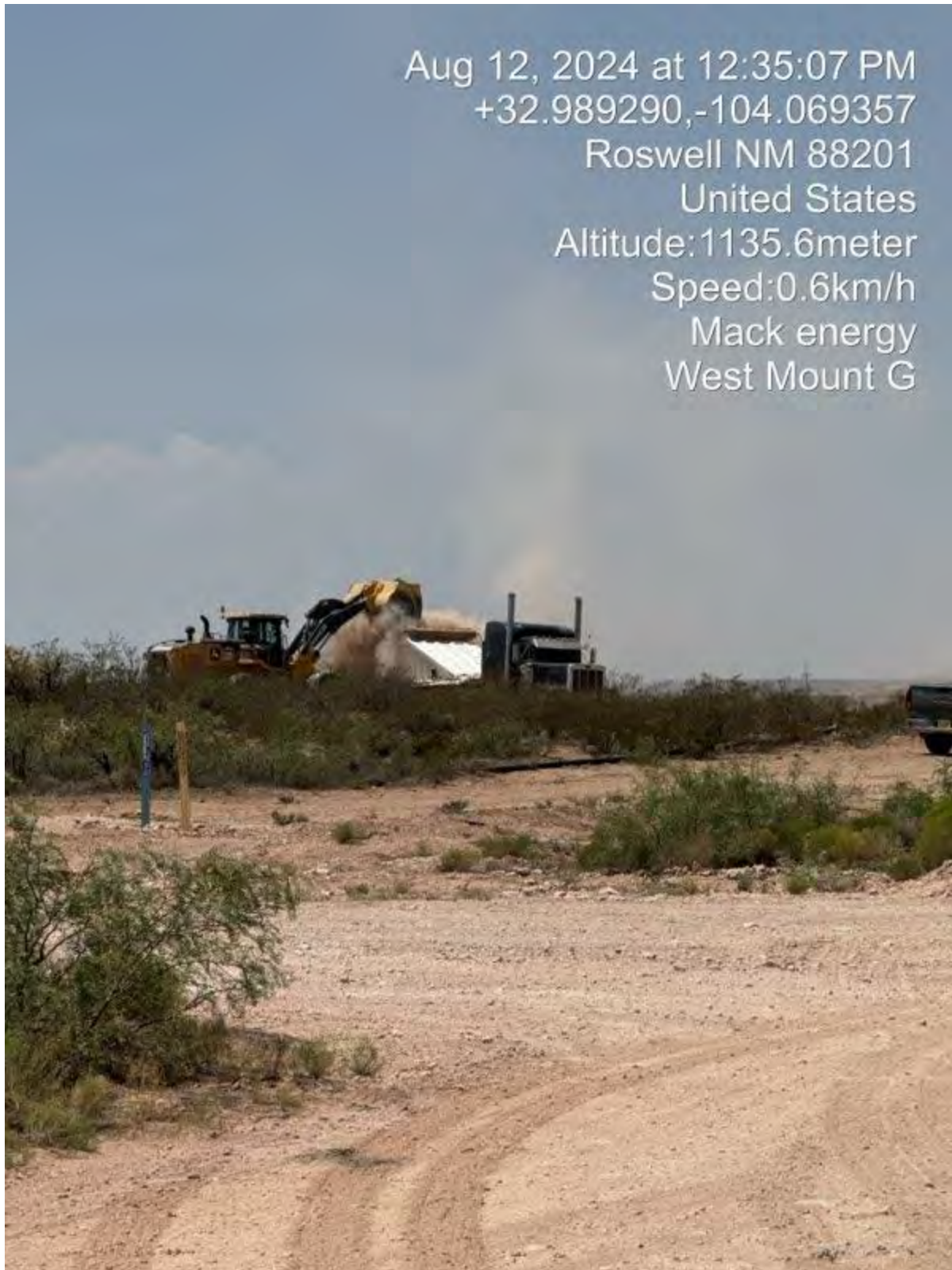


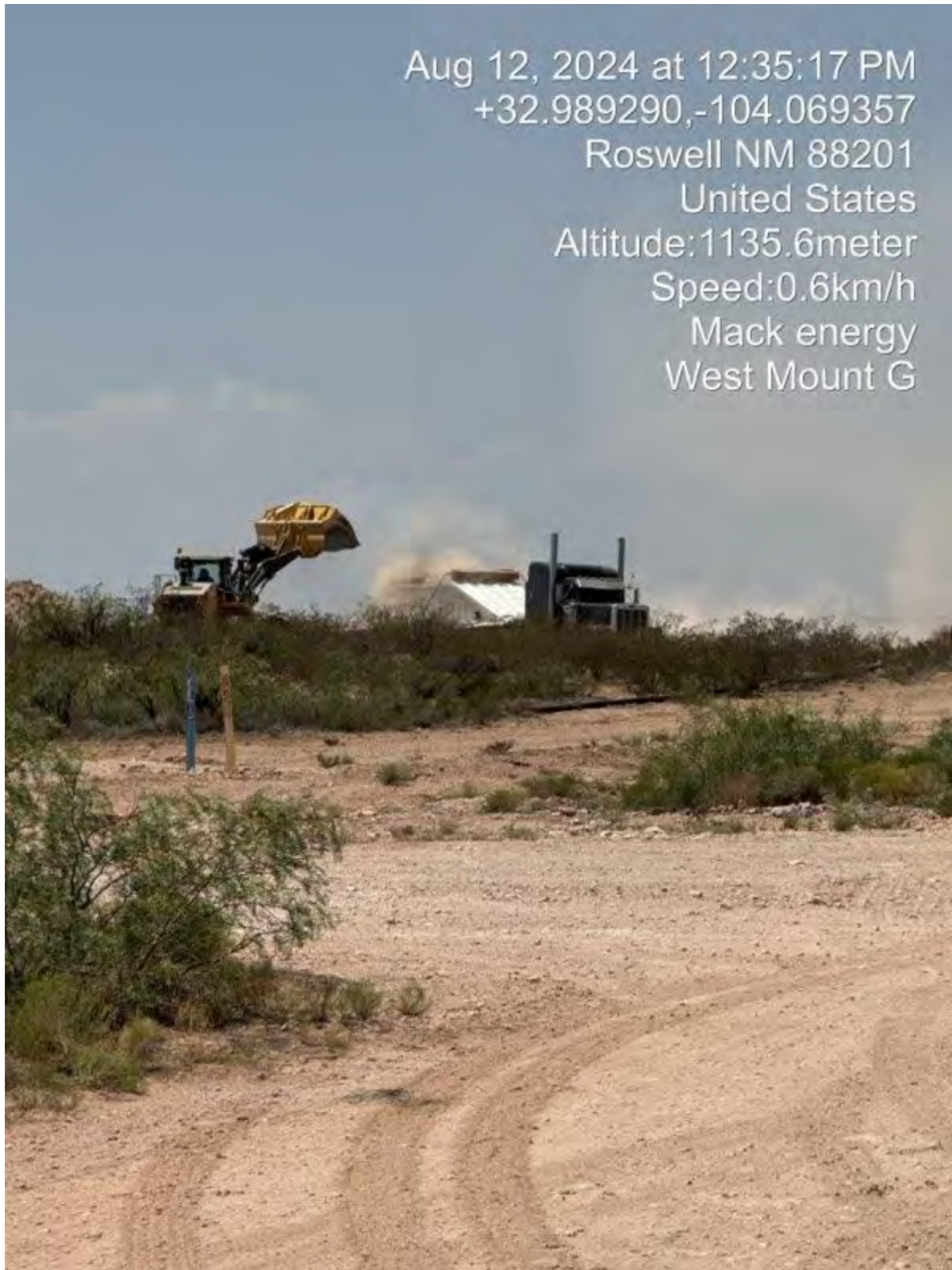


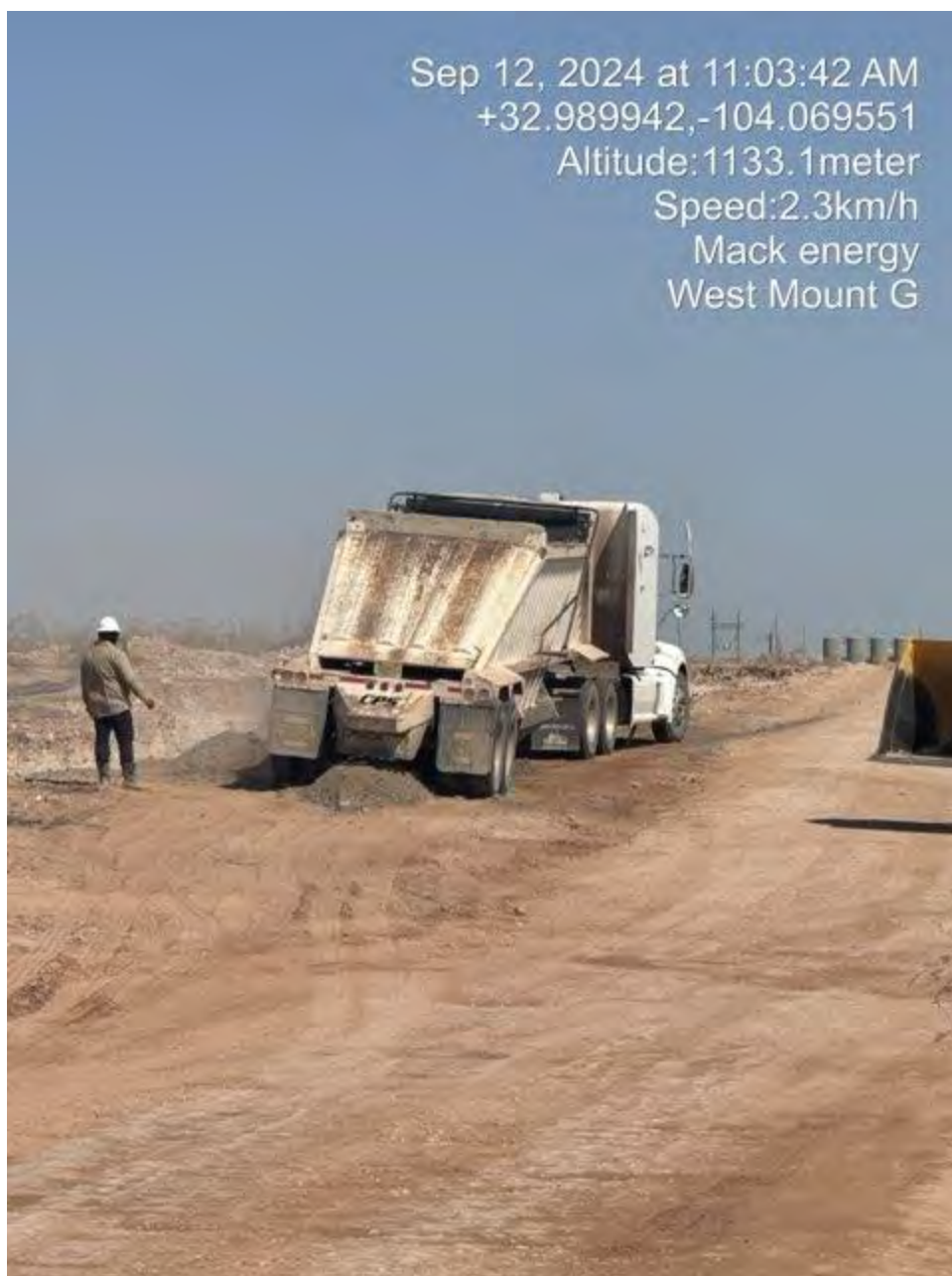


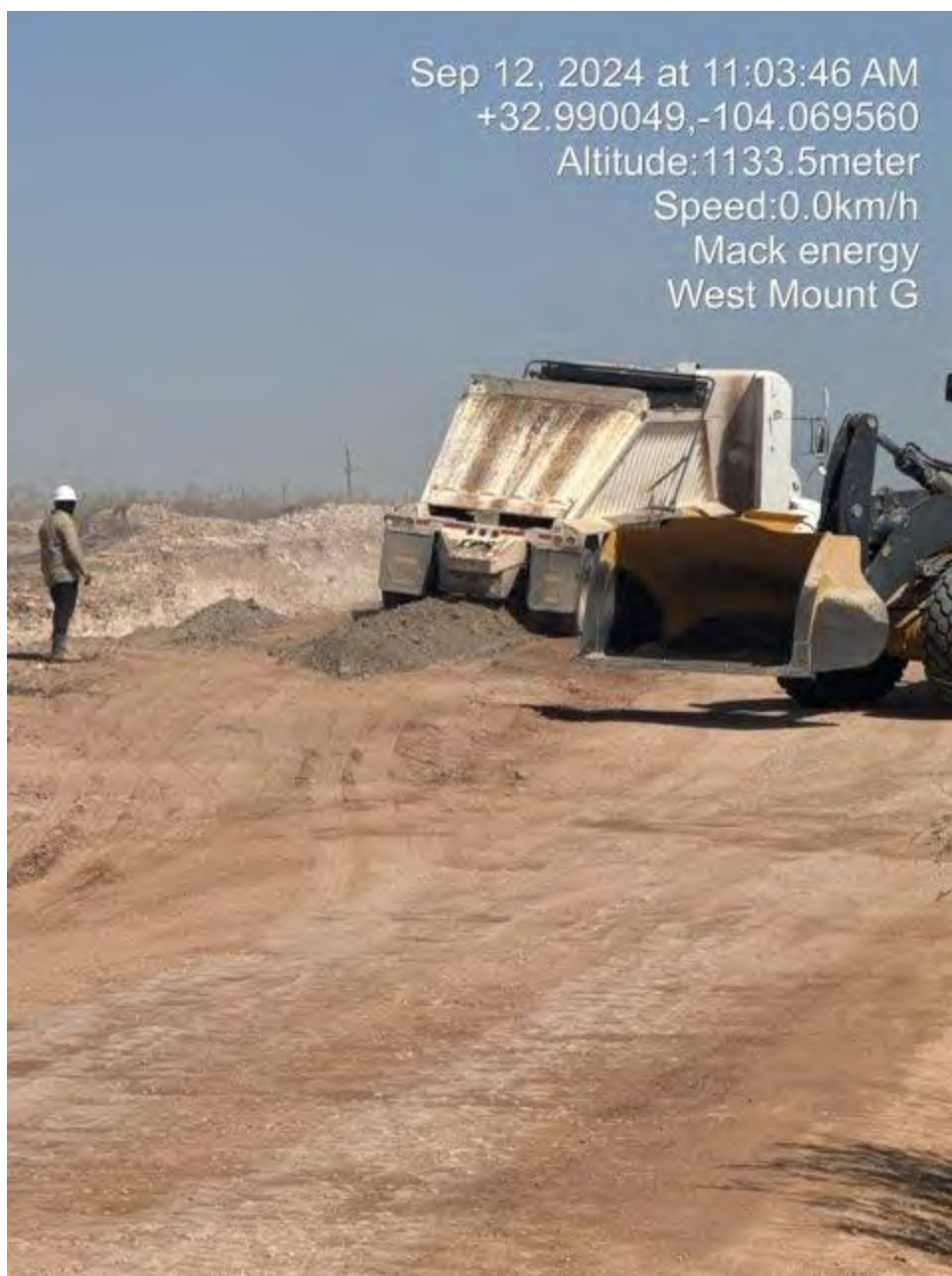
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+32.989921,-104.069244
Roswell NM 88201
United States
Altitude:1134.6meter
Speed:0.1km/h
Mack energy
West Mount G

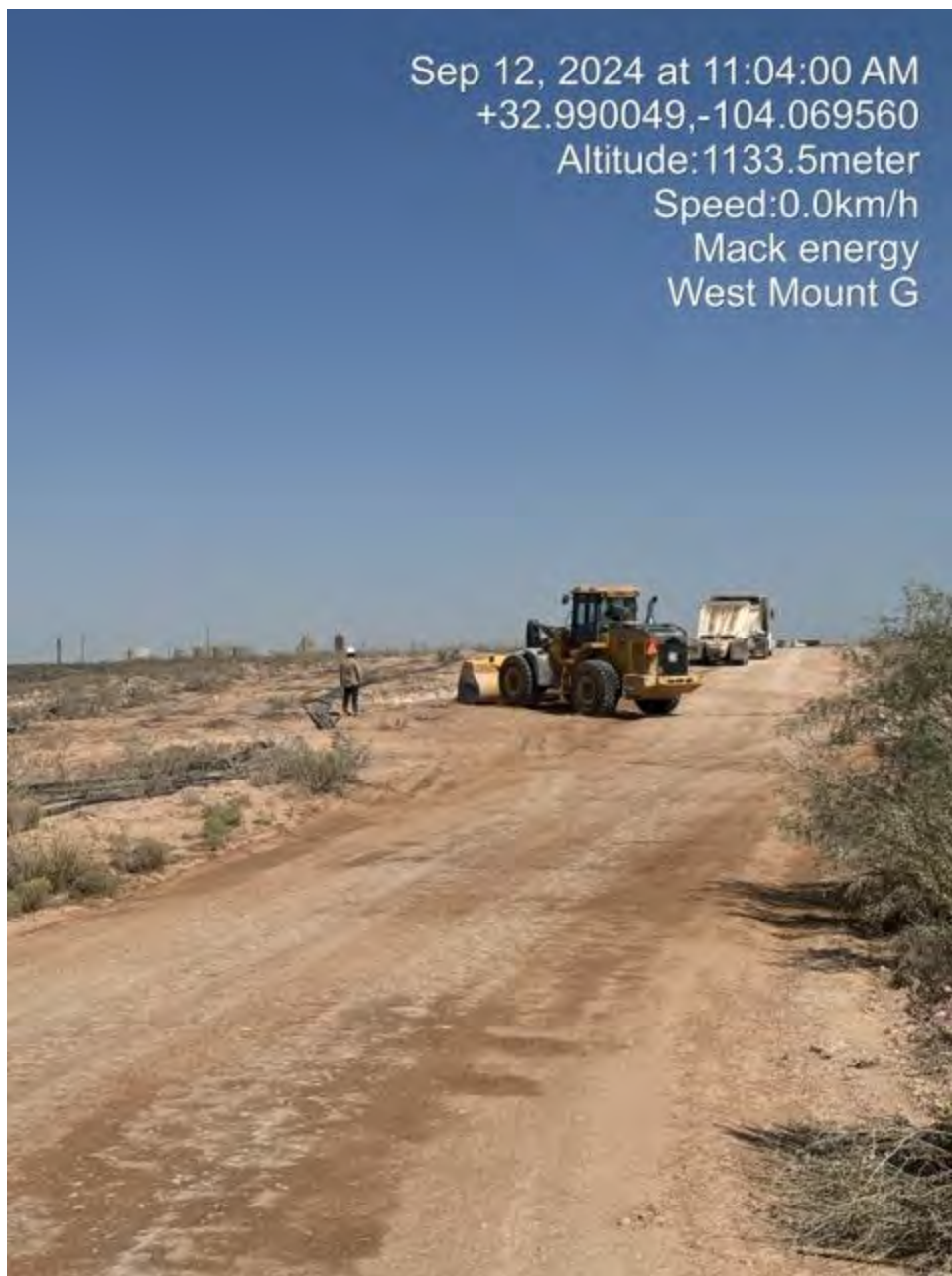


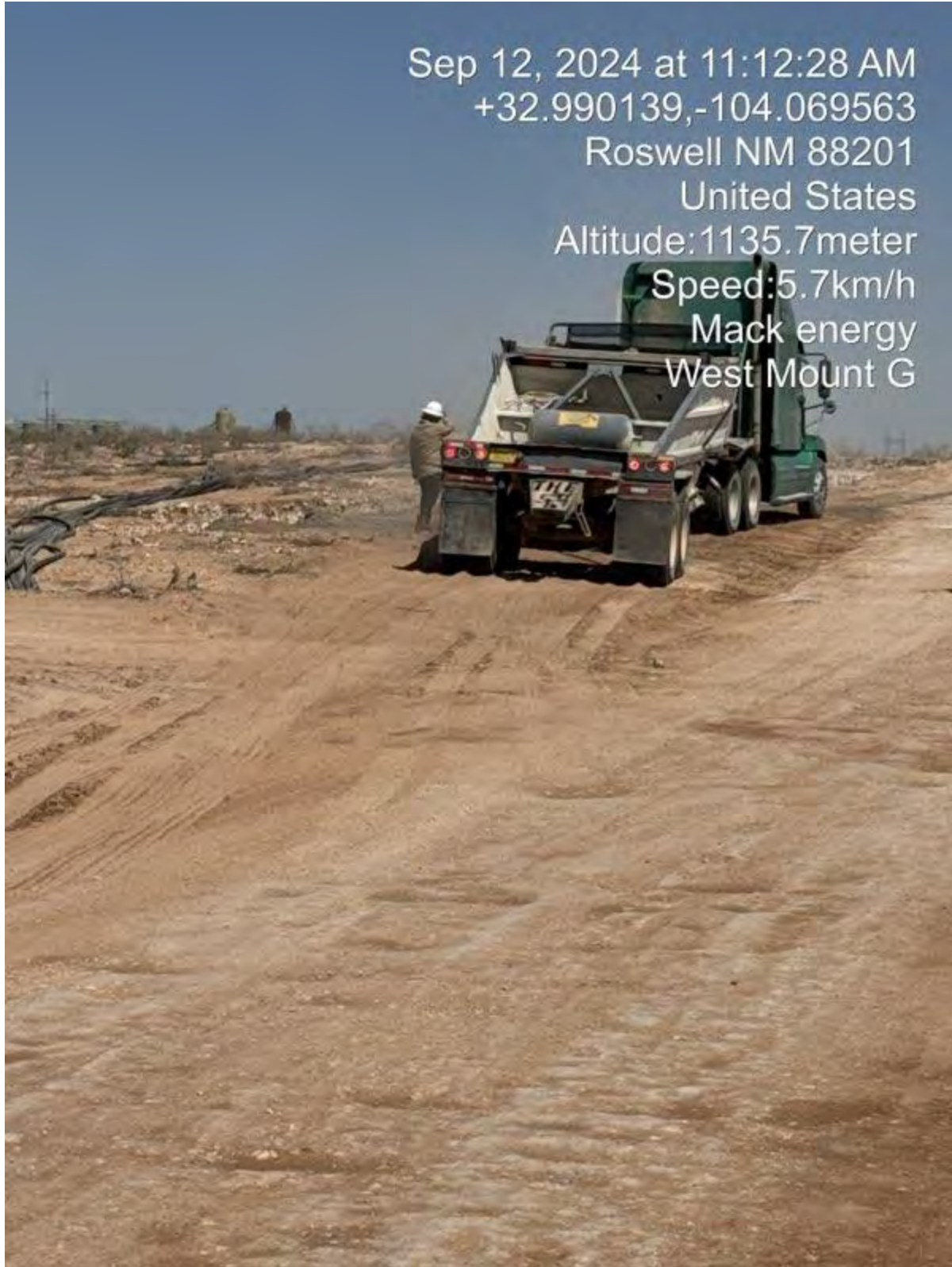


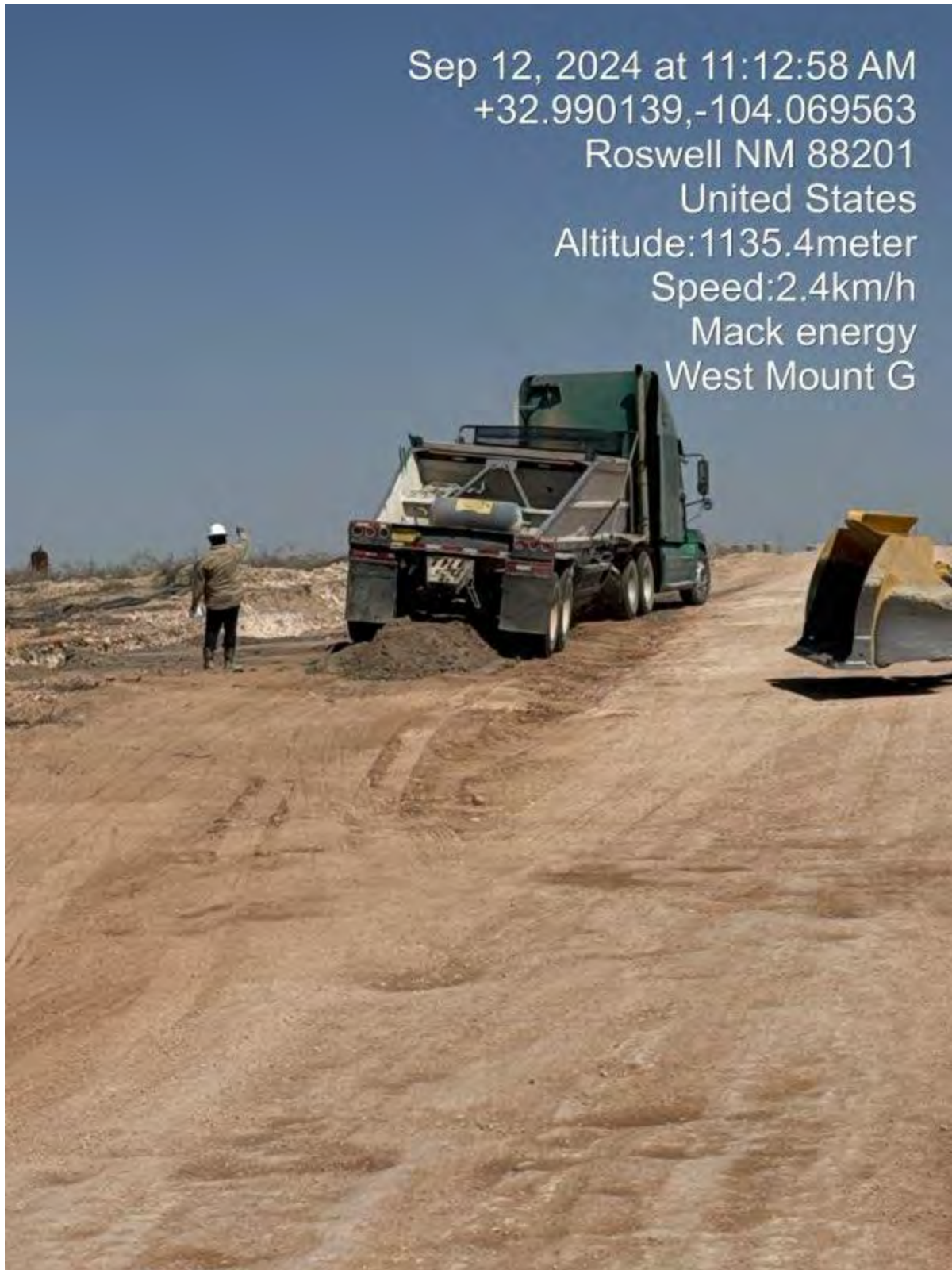


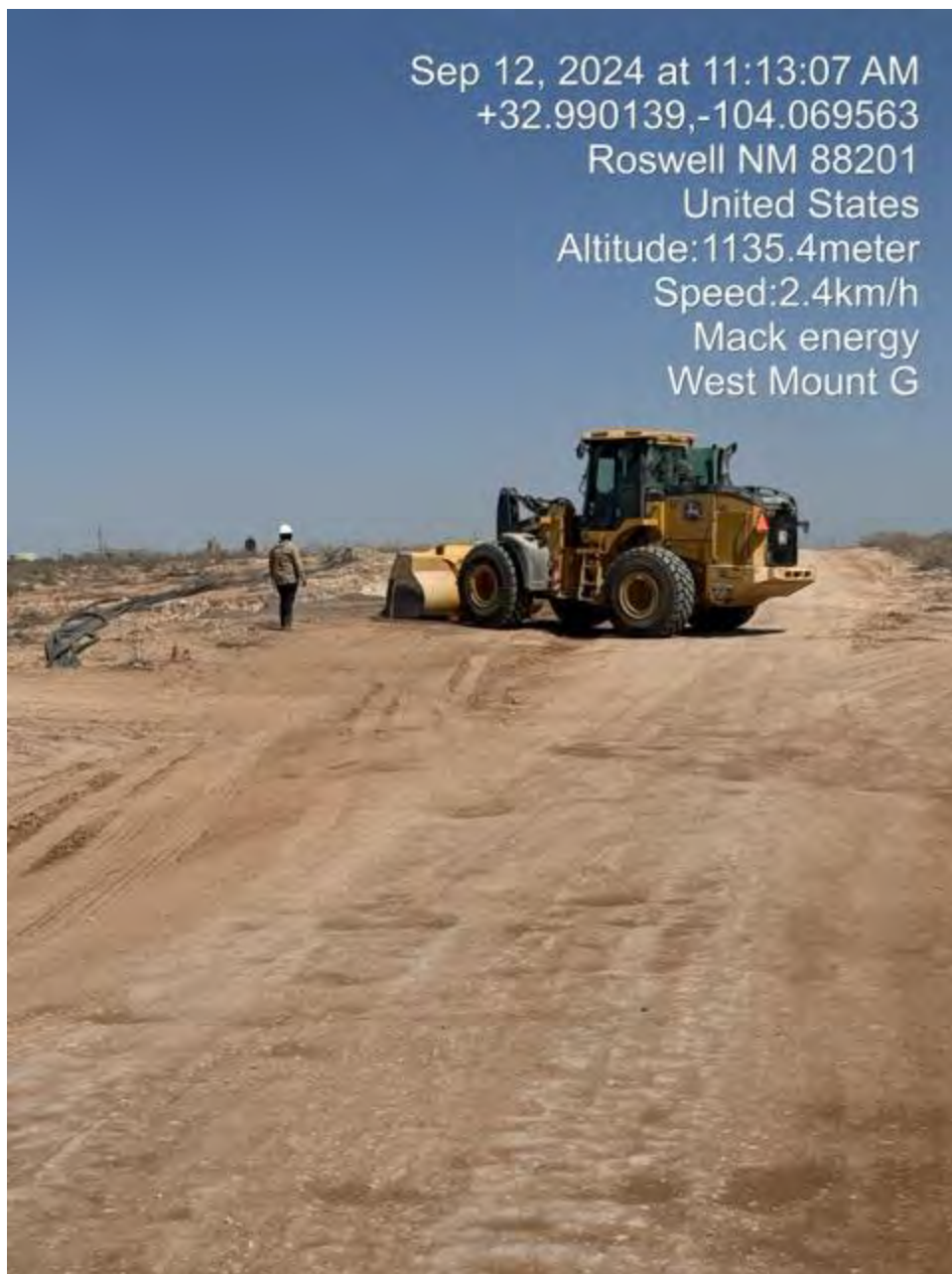




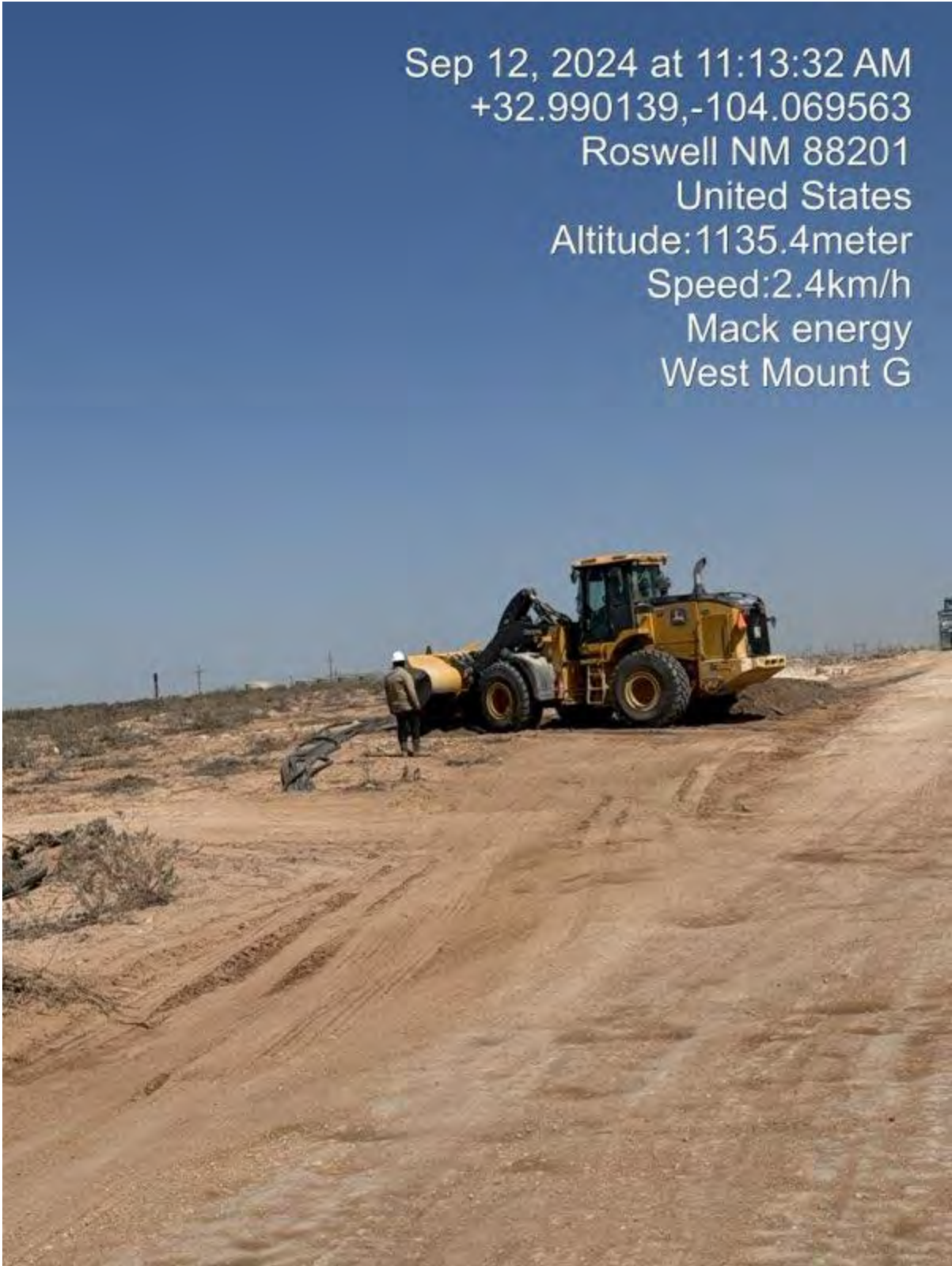


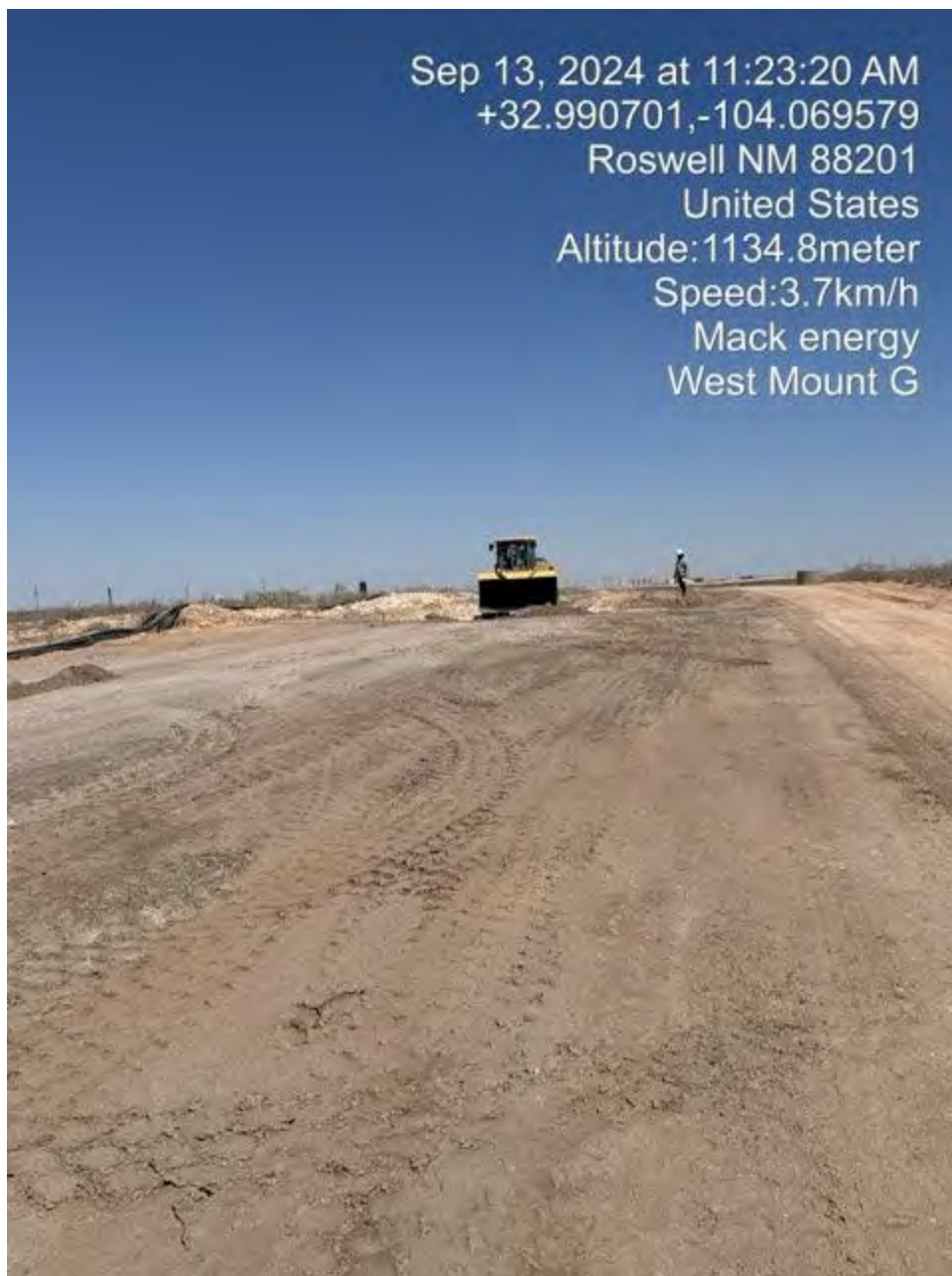




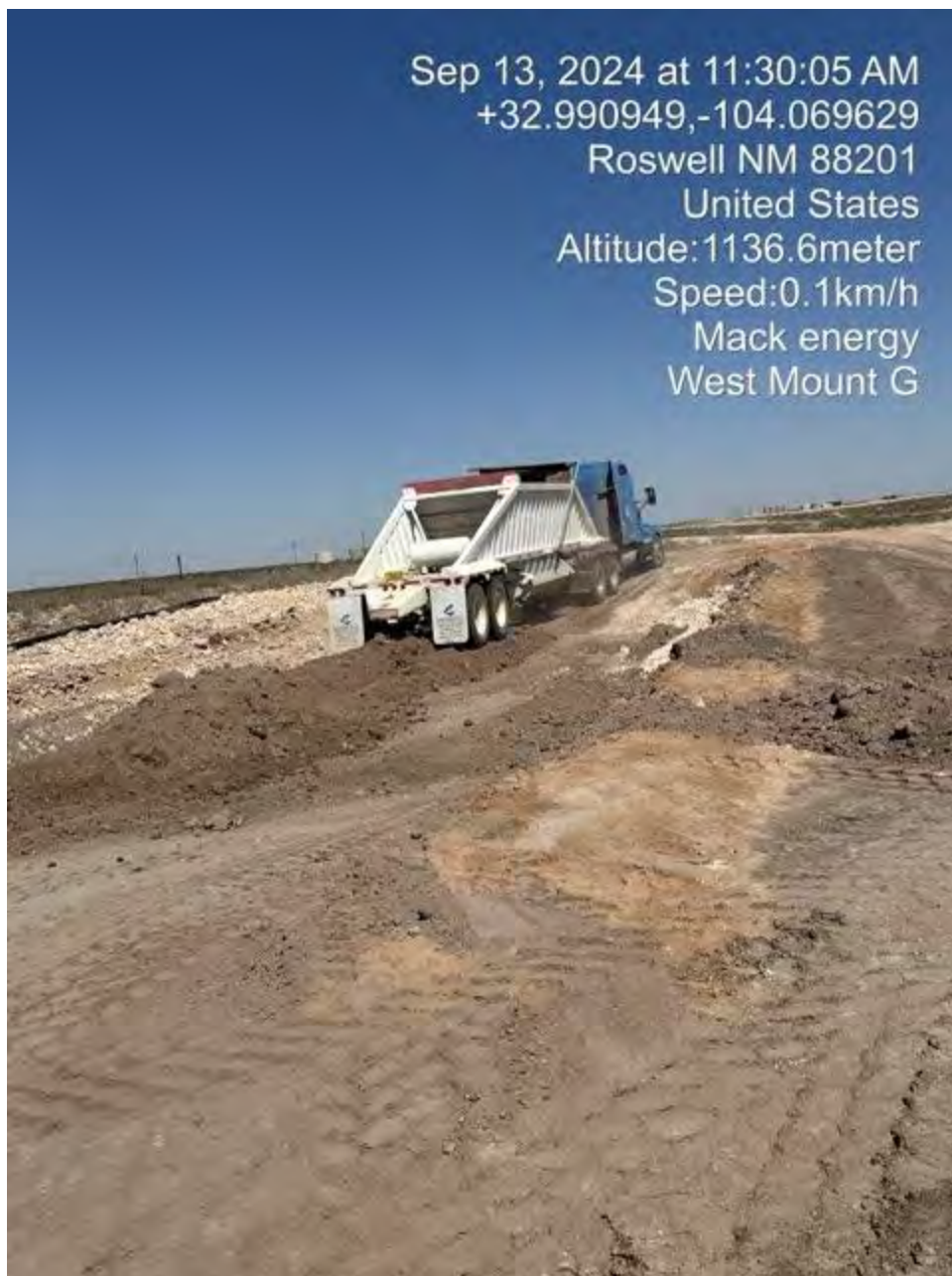


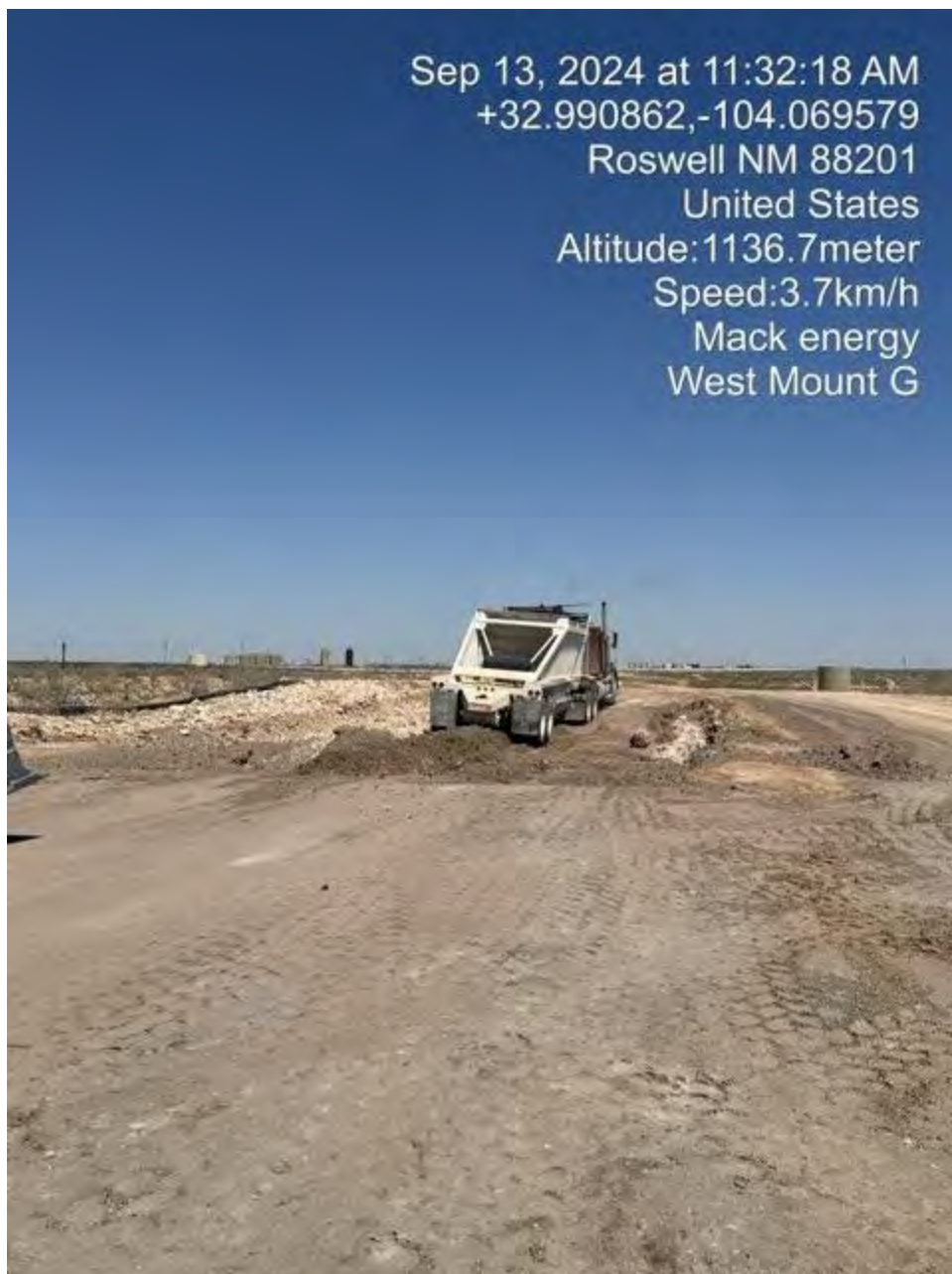
Sep 12, 2024 at 11:13:32 AM
+32.990139,-104.069563
Roswell NM 88201
United States
Altitude:1135.4meter
Speed:2.4km/h
Mack energy
West Mount G

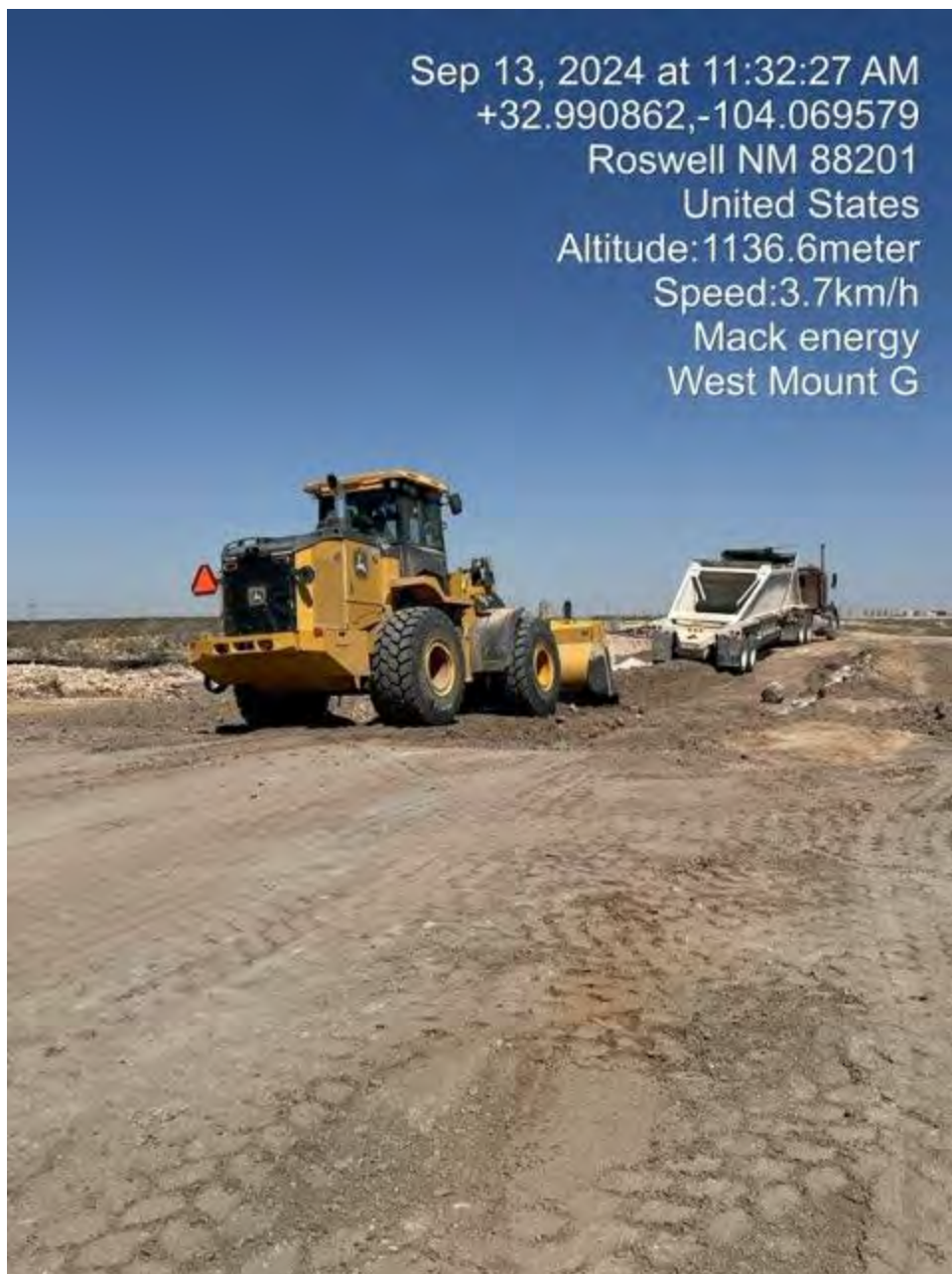


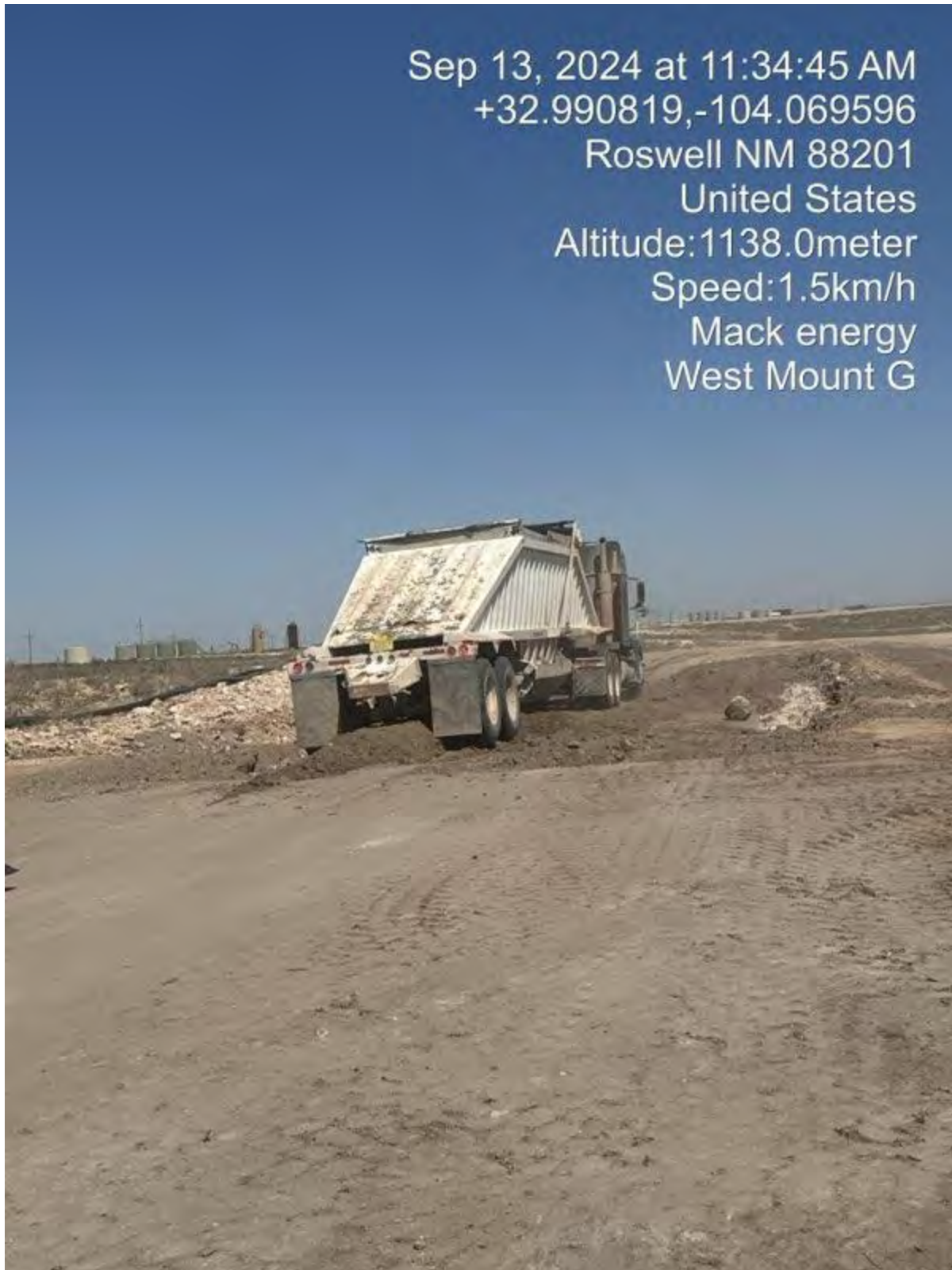


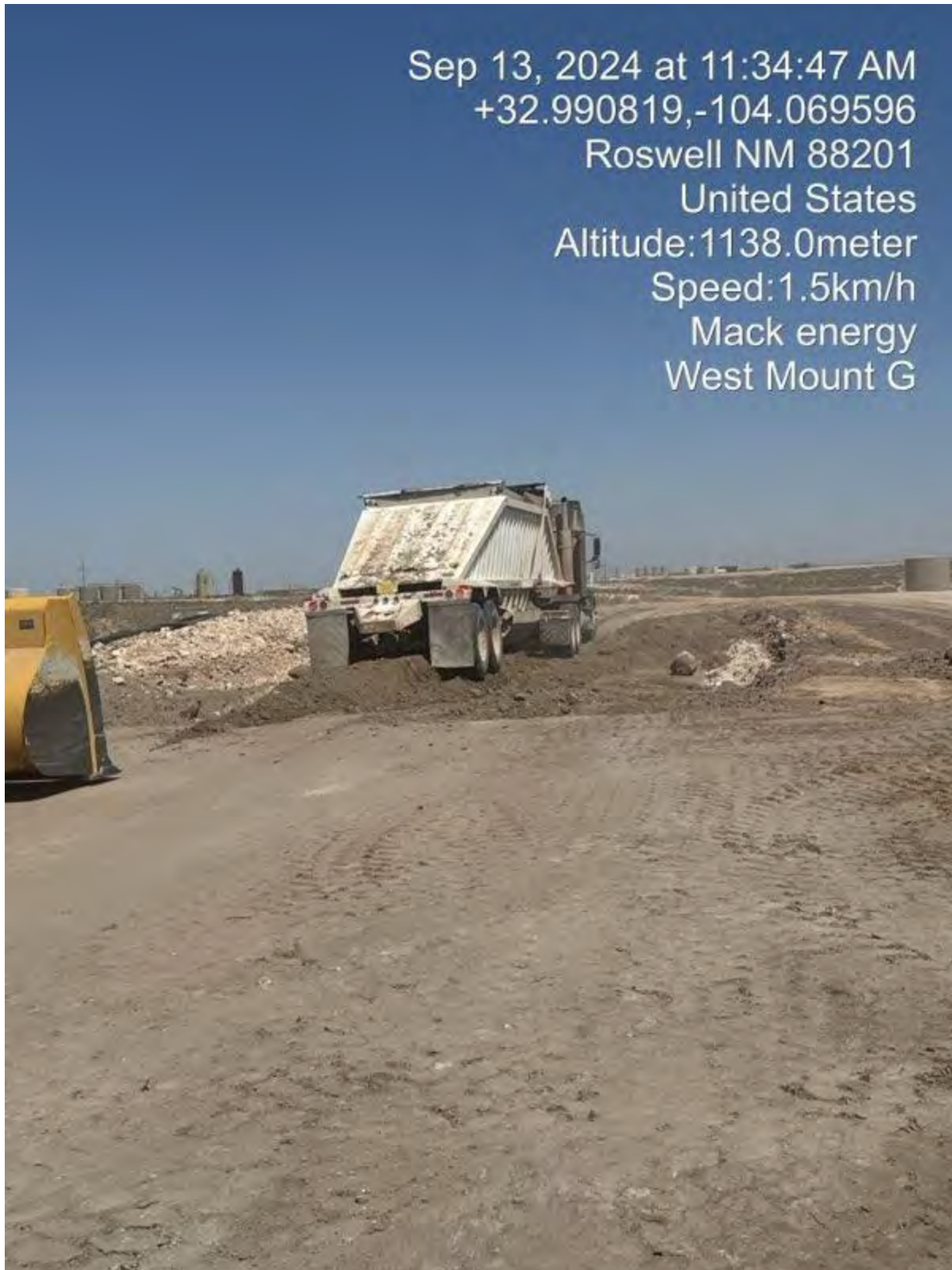






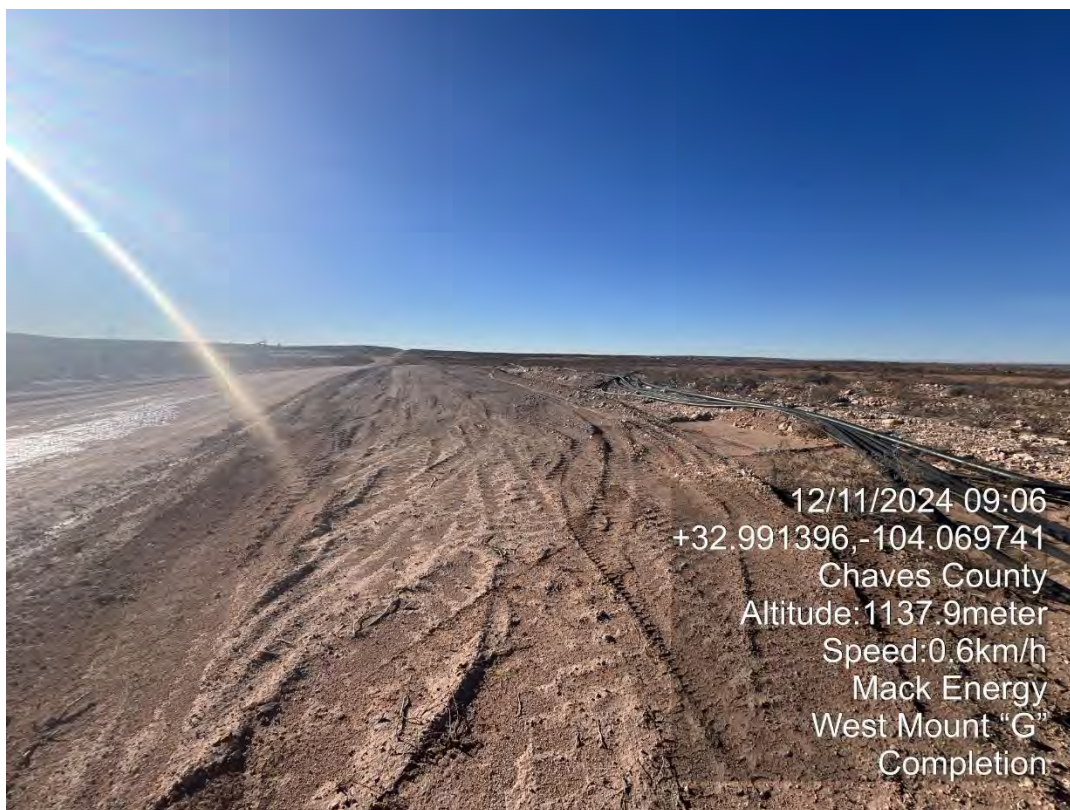






Sep 13, 2024 at 11:34:47 AM
+32.990819,-104.069596
Roswell NM 88201
United States
Altitude:1138.0meter
Speed:1.5km/h
Mack energy
West Mount G







**MACK ENERGY CORPORATION
WEST MOUNT SPILL G
RECLAMATION EXECUTIVE SUMMARY
INCIDENT NO. NAPP2329735127**

**API NO. 30-005-64381
UNIT LETTER C, SECTION 30, TOWNSHIP 15S, RANGE 29E
CHAVES COUNTY, NEW MEXICO**

Reclamation Executive Summary

Subject: Final Reclamation Summary – West Mount Spill G (Incident No. NAPP232935127)

On January 14, 2025 ESS initiated and completed reclamation activities at the West Mount Spill G site following the finalization of remediation efforts for the release that occurred on September 20, 2023 (Incident Number: NAPP2329735127).

A total of 1074 cubic yards of topsoil was loaded and hauled from Kingston's Pit. The topsoil was evenly spread across the entire 6,293 square-foot impacted area. The site was then ripped, contoured, and sloped to match the natural grade. Reseeding was conducted using the Sandy Loam Seed Mix from Curtis and Curtis Seed, which covered the excavation area and disturbed area used for remediation and reclamation efforts consisting of 6,293 square-foot in accordance with State Land Office (SLO) Rules and Regulations.

A five-point composite was taken from the center of the excavation/backfill area located at 32.990895 -104.069720. Please find the reclamation composite map and confirmed lab analysis attached herein.

Final reclamation photos have been included with the Closure Report, which has been uploaded and submitted through the NMOCD Portal. The seed tag associated with the seeding event is also attached for your records.

Should you have any questions or require additional information regarding the completed reclamation activities at the West Mount Spill G site for Mack Energy, please feel free to contact me at (575) 390-6397 or (575) 393-9048, or via email at natalie@energystaffingllc.com.

Sincerely,



Natalie Ragsdal

COO - Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



Attachments:

Composite Map

Site Photos

Seed Tag

MACK ENERGY

WEST MOUNT SPILL G
BACKFILL COMPOSITE MAP

Legend

- BACKFILL 5PT COMPOSITE
- █ Mack Energy West Mount #1 Spill G 6293 SQ. FT.
- ◆ WEST MOUNT SPILL G



WEST MOUNT SPILL G

BACKFILL 5PT COMPOSITE





Mack Energy
NMSLO Sandy Loam- 1.8 Ac Broadcasted
Lot #: 68135
 28.29

Item	% Pure Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Little Bluestem, Aldous	9.72%	Kansas	61.69%	59.00%	31.00%	90.00%	11/2024
Galleta, Viva	9.30%	Texas	86.14%	21.00%	73.00%	94.00%	9/2024
Blue Grama, Alma	7.36%	Texas	31.75%	94.00%	1.00%	95.00%	10/2024
Sidecoats Grama, Niner	7.21%	Texas	71.10%	16.00%	81.00%	97.00%	12/2024
Four-wing Saltbush, Variety Not Stated	7.07%	New Mexico	91.52%	0.00%	0.00%	99.00%	11/2024
Winter Fat, Variety Not Stated	6.66%	New Mexico	48.97%	90.00%	2.00%	92.00%	8/2024
Palmer Penstemon, Variety Not Stated	3.72%	Utah	98.86%	15.00%	79.00%	94.00%	7/2024
Sand Dropseed, Variety Not Stated	3.61%	Oklahoma	95.21%	92.00%	5.00%	97.00%	10/2024
Gaillardia Aristata, Variety Not Stated	3.61%	Oregon	89.09%	97.00%	0.00%	97.00%	6/2024
Blue Flax, Appar	3.60%	Washington	98.42%	97.00%	0.00%	97.00%	6/2024
Blackeyed Susan, Variety Not Stated	3.53%	Iowa	99.38%	99.00%	0.00%	99.00%	6/2024
Seed Total	65.39%						
Inert Matter:	34.54%						
Other Crop:	0.08%						
Weed Seed:	0.01%						

curtisseed.com

Noxious Weed: None

4500 North Prince, Clovis, NM 88101

NMSLO Sandy Loam-1.8 AC Broadcasted.
 Bag into 3) 0.5 acre Bag into 3) 0.5 ac
 broadcasted bags @ 28.29 bulk pounds

(575) 762-4759







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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 537951

QUESTIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329735127
Incident Name	NAPP2329735127 WEST MOUNT SPILL G @ 30-005-64381
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-005-64381] WESTMOUNT FEDERAL COM #001H

Location of Release Source

Please answer all the questions in this group.

Site Name	WEST MOUNT SPILL G
Date Release Discovered	09/21/2023
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Production Produced Water Released: 39 BBL Recovered: 0 BBL Lost: 39 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 537951

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

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

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: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 12/27/2025
--	--

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QUESTIONS, Page 3

Action 537951

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 26 and 50 (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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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)	3180
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	69.7
GRO+DRO (EPA SW-846 Method 8015M)	69.7
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	08/08/2024
On what date will (or did) the final sampling or liner inspection occur	08/27/2024
On what date will (or was) the remediation complete(d)	01/06/2025
What is the estimated surface area (in square feet) that will be reclaimed	6293
What is the estimated volume (in cubic yards) that will be reclaimed	1104
What is the estimated surface area (in square feet) that will be remediated	6293
What is the estimated volume (in cubic yards) that will be remediated	840

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.

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QUESTIONS, Page 4

Action 537951

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 12/27/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 537951

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 537951

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	375258
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/22/2024
What was the (estimated) number of samples that were to be gathered	32
What was the sampling surface area in square feet	6293

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	6293
What was the total volume (cubic yards) remediated	840
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	6293
What was the total volume (in cubic yards) reclaimed	1104
Summarize any additional remediation activities not included by answers (above)	All delineation, remediation and reclamation rules and regs were followed to closure for this site.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 12/27/2025

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QUESTIONS, Page 7

Action 537951

QUESTIONS (continued)

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	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Yes
What was the total reclamation surface area (in square feet) for this site	6293
What was the total volume of replacement material (in cubic yards) for this site	1104
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	01/14/2025
Summarize any additional reclamation activities not included by answers (above)	None, all in report.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 12/27/2025

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QUESTIONS, Page 8

Action 537951

QUESTIONS (continued)

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	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 537951

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 537951
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation/remediation closure report for Incident #NAPP2329735127 WEST MOUNT SPILL G, thank you. The reclamation/remediation closure report is approved.	1/9/2026