

WEST MOUNT #1A CLOSURE REQUEST

API NO. 30-005-64381 Unit Letter M, Section 27, Township 15S, Range 28E CHAVES COUNTY, NEW MEXICO

DATE OF RELEASE: 09/08/2023 INCIDENT NO. NAPP2327753701

01/29/2025 Prepared by:



January 29, 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 Report for Mack Energy Corporation – West Mount #1A

API No. 30-005-64381 Incident No. NAPP2327753701 Unit letter M, Section 27, Township 15S, Range 28E Chaves County, New Mexico

To Whom it May Concern:

Mack Energy retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the West Mount 1A for the produced water release that occurred on September 8th, 2023. On September 22nd, 2023, at 4:12 p.m., ESS provided the immediate notification of the release to the *New Mexico Oil Conservation Division (NMOCD)*, *District I Office* via email. (Notification Attached). On behalf of Mack Energy, ESS also submitted the initial C141 Release Notification, along with the spill calculator used to determine the volume of the release (attached) on October 4th, 2023. The NMOCD accepted the C141 as record on October th, 2023, at 11:28 a.m. The incident number assigned to the release is NAPP2327753701. (Notification of correspondence is attached).

This report provides a detailed description of the spill assessment, delineation, and remedial activities, which demonstrate that the closure criteria has been established in the 19.15.29.12 New Mexico Administrative Code (NMAC: New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations have been followed. This document is intended to serve as the final report to obtain approval from the NMOCD for the closure of the above-mentioned release.

Incident Description

On September 8th, 2023, the water transfer company Well Spring found a failure on their lay flat line, which had released produced water into the pasture area.

Upon discovery of the release, ESS was notified and dispatched to the location to conduct a full environmental site assessment of the release. It was determined, after measuring the impact area, that approximately 156.17 barrels of produced water, with no fluid able to be recovered, had been released into the pasture area of the West Mount #1A. Initial site photos and measuring of the impacted area were conducted. Please see initial site photos attached.

Site Characterization

The release at the West Mount #1A occurred on State Land and is located at 32.978520 latitude and -104.092530 longitude, 22.2 miles southeast of Hagerman, New Mexico. The legal description of the site is Unit letter M, Section 27, Township 15S, and Range 28E. The site is located in Chaves County, New Mexico. Please see the site schematic attached.

The West Mount #1A consists of production lines and is near production facilities and well pads. The area of the release occurred in the pasture area of the West Mount #1A. The elevation is 3,577 feet. The area is historically or has been primarily dominated by Adonis blazingstar, alkali sacaton, black grama, blue grama, coldenia, and other perennial grasses and forbs. Please find attached the Rangeland and Vegetation Classification information attached.

The *United States Department of Agriculture Natural Resources Conservation Services* indicates that the soil type in the area of the West Mount #1A consists of 73.8% Alama loam and 26.2% Holloman-Gypsum land complex, 3 to 5 percent slopes. (Soil Map Attached). In the area of the West Mount #1A, the *FEMA National Flood Hazard Layer* indicates that there is a 0.2% chance of a flood hazard with a 1% chance of flood with an average depth of one foot or with drainage areas of less than one square mile. (See Map Attached).

There is "low potential" for Karst Geology to be present near the West Mount #1A site, according to the *United States Department of the Interior, Bureau of Land Management*. Please find the Karst Map attached herein.

There are six Palustrine Emergent (PEM) wetlands and three Riverine features (R1, R2, and R3) located within a half-mile radius of the site (see attached wetlands map). No other surface water bodies, continuously flowing watercourses, or lakebeds are present within this radius. A watercourse map is also attached for reference.

The nearest and most recent water well to site according to the *New Mexico Office of the State Engineer* is RA12428, drilled in 2016 with a well depth of 170 feet and a groundwater depth of 125 feet. This well is located 5,200 yards from the site. The second well is RA12429 POD1, drilled in 2016 with a well depth of 62 feet and a groundwater depth of 27 feet, 5,767 yards

from the site. The third well is RA09248, drilled in 1996 with a well depth of 150 feet and a groundwater depth of 45 feet. This well is located 7,081 yards from the site. The fourth well is RA10280, drilled in 2002 with a well depth of 70 feet and a groundwater depth of 40 feet, 7,156 yards from the site. The fifth well is RA09059, drilled in 1996 with a well depth of 110 feet and a groundwater depth of 35 feet. The well is located 7,603 yards from the site. An extended groundwater search was conducted using the *OSE POD Location Mapping System* and it has been determined that no other wells were found within a ½ mile radius of the West Mount #1A release. Please find the NMOSE, OSE POD, and the groundwater map attached to this report.

Closure Criteria Determination

The Closure Criteria for Soils impacted by a Release is shown in the chart below. With no groundwater data available within a ½ mile radius from the release point, being on State Land and with having "low karst potential," the site fell under <50' to groundwater. This is only due to not having any recent or available water depths.

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

ESS has provided sufficient data that this release has impacted the soil at the West Mount #1A release site and that the protocol is consistent with the remediation/abatement goals and objectives set forth in the NMOCD Closure Criteria for Soils Impacted by a Release, dated August 14, 2018. This document provides direction for Mack Energy's initial response actions, site assessment and sample procedures conducted by ESS Staff. We would like to present to you the following information concerning the delineation process for the release detailed herein.

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 September 20th, 2023, ESS arrived on site of the West Mount #1A, set delineation sample points, GPS'd each sample point, and began to obtain surface samples. Each surface sample was field tested, logged, and submitted to Envirotech Laboratory for confirmation. A total of 28 vertical sample points were placed along with 50 horizontal sample points. Each sample point was then sampled by use of backhoe in 1' and 2' intervals. Bottom hole samples were then submitted to the lab for confirmation. Please see the delineation sample data below, with the lab data indicated in yellow. Attached to this report you will find the sample data, delineation sample map, and the lab analysis.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	>4000	L	ND	ND	ND	ND	ND	5750
	2	240							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP2	SURF	>4000	L	ND	ND	ND	ND	ND	6460
	2	880							
	4	640							
	6	480							
	8	400							
	10	160	L	ND	ND	ND	ND	ND	ND
SP3	SURF	>4000	L	ND	ND	191	ND	191	23400
	2	>4000							
	4	2480							
	6	1120							

	8	320							
	10	160	L	ND	ND	ND	ND	ND	ND
	_								
SP4	SURF	>4000	L	ND	ND	145	ND	145	20700
	2	>4000							
	4	3440							
	6	2160							
	8	720							
	10	400							
	12	160	L	ND	ND	ND	ND	ND	ND
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	9730
	2	720							
	4	560							
	6	240							
	8	160	L	ND	ND	ND	ND	ND	ND
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	6600
	2	240							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP7	SURF	>4000	L	ND	ND	ND	ND	ND	9940
	2	480							
	4	400							
	6	320							
	8	160	L	ND	ND	ND	ND	ND	ND
SP8	SURF	>4000	L	ND	ND	ND	ND	ND	19800
	2	640							
	4	560							
	6	160							
	8	160	L	ND	ND	ND	ND	ND	ND
SP9	SURF	>4000	L	ND	ND	ND	ND	ND	13200
	2	400							
	4	240							
	6	160	L	ND	ND	ND	ND	ND	ND
SP10	SURF	160	L	ND	ND	ND	ND	ND	91.6
	2	320							

	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
				.,,_	.,_	.,,_	.,,	.,,_	
SP11	SURF	>4000	L	ND	ND	ND	ND	ND	7200
	2	400							
	4	240							
	6	160	L	ND	ND	ND	ND	ND	ND
SP12	SURF	>4000	L	ND	ND	ND	ND	ND	11300
	2	>4000							
	4	3760							
	6	>4000							
	8	>4000							
	10	3440							
	12	480							
	14	400							
	16	160	L	ND	ND	ND	ND	ND	ND
SP13	SURF	>4000	L	ND	ND	ND	ND	ND	15900
	2	880							
	4	320							
	6	160	L	ND	ND	ND	ND	ND	ND
SP14	SURF	>4000	L	ND	ND	264	ND	264	25000
	2	560							
	4	400							
	6	160	L	ND	ND	ND	ND	ND	ND
SP15	SURF	>4000	L	ND	ND	171	ND	171	5940
	2	2640							
	4	1760							
	6	320							
	8	160	L	ND	ND	ND	ND	ND	ND
SP16	SURF	>4000	L	ND	ND	ND	ND	ND	4380
	2	>4000							
	4	2080							
	6	400							
	8	160	L	ND	ND	ND	ND	ND	ND
SP17	SURF	3120	L	ND	ND	ND	ND	ND	3220

		4040							
	2	1840							
	4	800							
	6	240	_						
	8	160	L	ND	ND	ND	ND	ND	ND
SP18	SURF	>4000	L	ND	ND	ND	ND	ND	15500
	2	640							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP19	SURF	>4000	L	ND	ND	ND	ND	ND	14600
	2	480							
	4	240							
	6	160	L	ND	ND	ND	ND	ND	ND
SP20	SURF	>4000	L	ND	ND	ND	ND	ND	15600
	2	320							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP21	SURF	>4000	L	ND	ND	ND	ND	ND	20300
	2	400							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP22	SURF	>4000	L	ND	ND	ND	ND	ND	20500
	2	640							
	4	320							
	6	160	L	ND	ND	ND	ND	ND	ND
SP23	SURF	>4000	L	ND	ND	ND	ND	ND	21700
	2	240							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP24	SURF	>4000	L	ND	ND	ND	ND	ND	15800
	2	400							
	4	240							
	6	160	L	ND	ND	ND	ND	ND	ND
SP25	SURF	>4000	L	ND	ND	29.6	ND	29.6	15600

	2	400							
	2	400							
	4 6	160		ND	ND	ND	ND	ND	ND
	б	160	L	ND	ND	ND	ND	ND	ND
CD26	CLIDE	> 4000		ND	ND	ND	ND	ND	122
SP26	SURF	>4000	L	ND	ND	ND	ND	ND	133
	2	320							
	4 6	240	L	ND	ND	ND	ND	ND	ND
	0	160	<u> </u>	ND	ND	ND	ND	ND	ND
SP27	SURF	>4000	L	ND	ND	ND	ND	ND	18500
3527	2	560	L	IND	IND	IND	IND	ND	18300
	4	400							
	6	160	L	ND	ND	ND	ND	ND	ND
	0	100	_	NU	ND	ND	NU	NU	ND
SP28	SURF	>4000	L	ND	ND	ND	ND	ND	307
31 20	2	240		110	110	110	110	110	307
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
				.,_	.,_	.,_	.,,,		
SW1	SURF	>4000	L	ND	ND	ND	ND	ND	13500
	1	80							
	2	80	L	ND	ND	ND	ND	ND	139
	_								
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	20800
	1	160							
	2	160	L	ND	ND	ND	ND	ND	22.9
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	3080
	1	80							
	2	80	L	ND	ND	ND	ND	ND	143
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	16500
	1	160							
	2	80	L	ND	ND	ND	ND	ND	150
SW5	SURF	>4000	L	ND	ND	ND	ND	ND	19400
	1	80							
	2	80	L	ND	ND	ND	ND	ND	143
SW6	SURF	>4000	L	ND	ND	ND	ND	ND	275
	1	160							

	2	160	L	ND	ND	ND	ND	ND	221
SW7	SURF	>4000	L	ND	ND	ND	ND	ND	3160
	1	240							
	2	160	L	ND	ND	ND	ND	ND	214
SW8	SURF	>4000	L	ND	ND	ND	ND	ND	14400
	1	320							
	2	160	L	ND	ND	ND	ND	ND	221
SW9	SURF	>4000	L	ND	ND	ND	ND	ND	3410
	1	160							
	2	160	L	ND	ND	ND	ND	ND	224
SW10	SURF	>4000	L	ND	ND	ND	ND	ND	3580
	1	240							
	2	80	L	ND	ND	ND	ND	ND	ND
SW11	SURF	240	L	ND	ND	ND	ND	ND	ND
	1	400							
	2	400							
	3	240							
	4	160	L	ND	ND	ND	ND	ND	ND
SW12	SURF	240	L	ND	ND	ND	ND	ND	271
	1	640							
	2	160							
	3	160	L	ND	ND	ND	ND	ND	ND
SW13	SURF	2560	L	ND	ND	ND	ND	ND	3560
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW14	SURF	2400	L	ND	ND	ND	ND	ND	4260
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW15	SURF	>4000	L	ND	ND	ND	ND	ND	22800
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND

SW16	SURF	>4000	L	ND	ND	ND	ND	ND	16000
	1	1920							
	2	320							
	3	160	L	ND	ND	ND	ND	ND	ND
	_								
SW17	SURF	>4000	L	ND	ND	ND	ND	ND	7720
	1	2400							
	2	400							
	3	160	L	ND	ND	ND	ND	ND	ND
SW18	SURF	160	L	ND	ND	ND	ND	ND	ND
	1	160							
	2	80	L	ND	ND	ND	ND	ND	ND
SW19	SURF	160	L	ND	ND	ND	ND	ND	ND
	1	80							
	2	80	L	ND	ND	ND	ND	ND	ND
SW20	SURF	2720	L	ND	ND	ND	ND	ND	5460
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW21	SURF	80	L	ND	ND	ND	ND	ND	29.9
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW22	SURF	80	L	ND	ND	ND	ND	ND	50.9
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW23	SURF	>4000	L	ND	ND	ND	ND	ND	7560
	1	>4000							
	2	2800							
	3	240							
	4	160	L	ND	ND	ND	ND	ND	ND
SW24	SURF	800	L	ND	ND	ND	ND	ND	419
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW25	SURF	160	L	ND	ND	ND	ND	ND	66.3

	1	880							
	2	240							
	3	160	L	ND	ND	ND	ND	ND	ND
SW26	SURF	>4000	L	ND	ND	ND	ND	ND	12600
	1	640							
	2	240							
	3	160	L	ND	ND	ND	ND	ND	ND
SW27	SURF	>4000	L	ND	ND	ND	ND	ND	6950
	1	800							
	2	320							
	3	160	L	ND	ND	ND	ND	ND	ND
SW28	SURF	2880	L	ND	ND	ND	ND	ND	2720
	1	400							
	2	240							
	3	160							
	4	160	L	ND	ND	ND	ND	ND	ND
SW29	SURF	240	L	ND	ND	ND	ND	ND	ND
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW30	SURF	2000	L	ND	ND	ND	ND	ND	3560
	1	260							
	2	160	L	ND	ND	ND	ND	ND	199
SW31	SURF	>4000	L	ND	ND	ND	ND	ND	7600
	1	320							
	2	240	L	ND	ND	ND	ND	ND	ND
	_								
SW32	SURF	>4000	L	ND	ND	ND	ND	ND	10400
	1	>4000							
	2	>4000							
	3	160							
	4	80	L	ND	ND	ND	ND	ND	ND
01:15	0								4555
SW33	SURF	>4000	L	ND	ND	ND	ND	ND	12300
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND

SW34	SURF	2240	L	ND	ND	ND	ND	ND	2210
	1	240							
	2	240	L	ND	ND	ND	ND	ND	ND
SW35	SURF	>4000	L	ND	ND	ND	ND	ND	35600
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW36	SURF	1600	L	ND	ND	ND	ND	ND	2610
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW37	SURF	>4000	L	ND	ND	ND	ND	ND	11500
	1	80							
	2	80	L	ND	ND	ND	ND	ND	ND
SW38	SURF	>4000	L	ND	ND	ND	ND	ND	5660
	1	160							
	2	80	L	ND	ND	ND	ND	ND	ND
CIA/20	CLIDE	4.500		NID	ND	NID	NID	ND	4050
SW39	SURF	1600	L	ND	ND	ND	ND	ND	1950
	1	80	L	ND	ND	ND	ND	ND	ND
	2	80	L	ND	ND	ND	ND	ND	ND
SW40	SURF	160	L	ND	ND	ND	ND	ND	54.5
30040	1	80	L	ND	IND	ND	ND	IND	54.5
	2	80	L	ND	ND	ND	ND	ND	ND
		00		IVD	NU	IVD	IVD	IVD	ND
SW41	SURF	1360	L	ND	ND	ND	ND	ND	2080
	1	160	_						
	2	160	L	ND	ND	ND	ND	ND	ND
SW42	SURF	640	L	ND	ND	ND	ND	ND	575
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW43	SURF	>4000	L	ND	ND	ND	ND	ND	21700
	1	640							
	2	240							
	3	160	L	ND	ND	ND	ND	ND	ND

SW44	SURF	2400	L	ND	ND	ND	ND	ND	4630
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW45	SURF	320	L	ND	ND	ND	ND	ND	ND
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW46	SURF	480	L	ND	ND	ND	ND	ND	256
	1	800							
	2	320							
	3	160	L	ND	ND	ND	ND	ND	ND
SW47	SURF	640	L	ND	ND	ND	ND	ND	566
	1	640							
	2	160							
	3	80	L	ND	ND	ND	ND	ND	ND
SW48	SURF	320	L	ND	ND	ND	ND	ND	ND
	1	560							
	2	240							
	3	80	L	ND	ND	ND	ND	ND	ND
SW49	SURF	160	L	ND	ND	ND	ND	ND	ND
	1	1440							
	2	400							
	3	160							
	4	80	L	ND	ND	ND	ND	ND	ND
SW50	SURF	160	L	ND	ND	ND	ND	ND	ND
	1	1200							
	2	720							
	3	320							
	4	160	L	ND	ND	ND	ND	ND	ND

Please see the delineation photos attached to this report.

On June 27, 2024, ESS sent the official notification to the NMOCD for the composite phase of the release on the West Mount #1A. On June 27, 2024, the NMOCD received and accepted the

notification for the composite phase of the release. (Please see the email correspondence attached).

On July 8, 2024, ESS crews began obtaining 200 sq. ft. composites from the excavation area of the West Mount #1A. A total of 108 bottom hole composites were obtained, field tested and submitted to Envirotech Laboratory for confirmation. Please find the composite sample data below as well as attached to this report followed by the lab confirmation data.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
COMP1	4	240	L	ND	ND	ND	ND	ND	ND
COMP2	6	240	L	ND	ND	ND	ND	ND	ND
COMP3	8	160	L	ND	ND	ND	ND	ND	ND
COMP4	8	240	L	ND	ND	ND	ND	ND	ND
COMP5	10	240	L	ND	ND	ND	ND	ND	ND
COMP6	4	320	L	ND	ND	ND	ND	ND	ND
COMP7	8	80	L	ND	ND	ND	ND	ND	29.8
COMP8	8	80	L	ND	ND	ND	ND	ND	32.6
COMP9	10	240	L	ND	ND	ND	ND	ND	101
COMP10	10	320	L	ND	ND	ND	ND	ND	241
COMP11	10	400	L	ND	ND	ND	ND	ND	ND
COMP12	10	320	L	ND	ND	ND	ND	ND	ND
COMP13	10	480	L	ND	ND	ND	ND	ND	332
COMP14	10	320	L	ND	ND	ND	ND	ND	ND
COMP15	6	320	L	ND	ND	ND	ND	ND	ND
COMP16	4	400	L	ND	ND	ND	ND	ND	250
COMP17	4	240	L	ND	ND	ND	ND	ND	ND

COMP18	4	320	L	ND	ND	ND	ND	ND	ND
COMP19	4	400	L	ND	ND	ND	ND	ND	437
			_						
COMP20	4	240	L	ND	ND	ND	ND	ND	ND
COMP21	8	80	L	ND	ND	ND	ND	ND	58
COMP22	4	400	L	ND	ND	ND	ND	ND	364
COMP23	4	320	L	ND	ND	ND	ND	ND	ND
COMPA	10	240		ND	ND	ND	AID	ND	ND
COMP24	10	240	L	ND	ND	ND	ND	ND	ND
COMP25	10	160	L	ND	ND	ND	ND	ND	ND
COMP26	10	160	L	ND	ND	ND	ND	ND	ND
COMPZO	10	100	L	IND	IND	ND	IND	IND	IND
COMP27	8	240	L	ND	ND	ND	ND	ND	ND
COMP28	6	240	L	ND	ND	ND	ND	ND	ND
			_				.,,_		
COMP29	6	240	L	ND	ND	ND	ND	ND	ND
COMP30	6	320	L	ND	ND	ND	ND	ND	ND
COMP31	4	400	L	ND	ND	ND	ND	ND	211
COMP32	4	320	L	ND	ND	ND	ND	ND	ND
COMPA	4	240		ND	ND	ALD	ALD	ND	ND
COMP33	4	240	L	ND	ND	ND	ND	ND	ND
COMP34	4	320	L	ND	ND	ND	ND	ND	ND
COMP35	8	240	L	ND	ND	ND	ND	ND	ND
COIVIF33	0	240	L	ואט	ואט	ואט	ואט	ואט	ואט
COMP36	8	400	L	ND	ND	ND	ND	ND	277
COMP37	8	160	L	ND	ND	ND	ND	ND	ND
331111 37	J	100	_	110	110	110	110	110	110

COMP38	8	160	L	ND	ND	ND	ND	ND	ND
COMP39	8	160	L	ND	ND	ND	ND	ND	ND
201111 33	3	100		1,12	1,12	1,12	142	1,12	142
COMP40	8	240	L	ND	ND	ND	ND	ND	ND
COMP41	4	160	L	ND	ND	ND	ND	ND	ND
	-								
COMP42	4	160	L	ND	ND	ND	ND	ND	ND
COMP43	4	240	L	ND	ND	ND	ND	ND	ND
COIVIF 43	4	240	L	ND	ND	ND	ND	ND	ND
COMP44	4	160	L	ND	ND	ND	ND	ND	ND
COMP45	4	160	L	ND	ND	ND	ND	ND	ND
COMP46	4	160	L	ND	ND	ND	ND	ND	ND
6014547	4	240		ND	ND	ND	NE	ND	NE
COMP47	4	240	L	ND	ND	ND	ND	ND	ND
COMP48	4	160	L	ND	ND	ND	ND	ND	ND
COIVII 40	-	100		IVE	IVE	IVE	IVE	IVE	IVE
COMP49	4	160	L	ND	ND	ND	ND	ND	ND
COMP50	4	160	L	ND	ND	ND	ND	ND	ND
COMP51	4	160	L	ND	ND	ND	ND	ND	ND
COMPES	4	100		ND	ND	ND	ND	ND	ND
COMP52	4	160	L	ND	ND	ND	ND	ND	ND
COMP53	4	160	L	ND	ND	ND	ND	ND	ND
			_	.,,,	.,,,		.,,_		.,,_
COMP54	4	160	L	ND	ND	ND	ND	ND	ND
COMP55	4	80	L	ND	ND	ND	ND	ND	ND
COMP56	4	160	L	ND	ND	ND	ND	ND	ND
COMP57	4	160	L	ND	ND	ND	ND	ND	ND
COIVIF3/	4	100	L	IND	IND	IND	IND	IND	IND
COMP58	4	160	L	ND	ND	ND	ND	ND	ND

COMP59	4	240	L	ND	ND	ND	ND	ND	ND
COMP60	4	160	L	ND	ND	ND	ND	ND	ND
			_						
COMP61	4	80	L	ND	ND	ND	ND	ND	ND
COMP62	4	160	L	ND	ND	ND	ND	ND	ND
COMP63	4	80	L	ND	ND	ND	ND	ND	ND
COMP64	4	160	L	ND	ND	ND	ND	ND	ND
0014065		150		ND	ND	ND	ND	ND	ND
COMP65	4	160	L	ND	ND	ND	ND	ND	ND
COMP66	4	240	L	ND	ND	ND	ND	ND	157
COMP67	4	160	L	ND	ND	ND	ND	ND	ND
COMPO	4	100	L	IND	IND	IND	IND	IND	IND
COMP68	4	160	L	ND	ND	ND	ND	ND	25.7
COMP69	4	160	L	ND	ND	ND	ND	ND	ND
			_				.,,_		
COMP70	4	320	L	ND	ND	ND	ND	ND	193
COMP71	4	240	L	ND	ND	ND	ND	ND	ND
COMP72	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP1	8	160	L	ND	ND	ND	ND	ND	ND
CINCONADO	0	220		ND	ND	ALD	ALD	ND	ND
SWCOMP2	8	320	L	ND	ND	ND	ND	ND	ND
SWCOMP3	8	320	L	ND	ND	ND	ND	ND	131
SWCOMP4	10	240	L	ND	ND	ND	ND	ND	ND
3WCOWF4	10	240	L	ואט	ואט	ואט	ואט	ואט	ואט
SWCOMP5	6	240	L	ND	ND	ND	ND	ND	ND
SWCOMP6	4	160	L	ND	ND	ND	ND	ND	ND
344 551411 6	7	100		140	140	140	110	140	140

		T	1	1	1	1		T	·
SWCOMP7	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP8	8	240	L	ND	ND	ND	ND	ND	ND
SWCOIVII 8	0	240	L	ND	ND	ND	IND	ND	IND
SWCOMP9	6	240	L	ND	ND	ND	ND	ND	ND
SWCOMP10	4	160	L	ND	ND	ND	ND	ND	ND
			_						
01110011011	_	1.00							
SWCOMP11	4	160	L	ND	ND	ND	ND	ND	23
SWCOMP12	4	320	L	ND	ND	ND	ND	ND	182
CIA/CONADA 2	4	160		ND	ND	ND	ND	ND	ND
SWCOMP13	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP14	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP15	4	160	L	ND	ND	ND	ND	ND	ND
3WCOWF13	4	100	L	ND	ND	ND	טוו	IND	ND
SWCOMP16	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP17	4	320	L	ND	ND	ND	ND	ND	202
344601411 17		320	_	140	110	110	140	140	202
	_		-						
SWCOMP18	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP19	4	240	L	ND	ND	ND	ND	ND	ND
CIACONADO	4	160		ND	ND	ND	ND	ND	ND
SWCOMP20	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP21	4	320	L	ND	ND	ND	ND	ND	174
SWCOMP22	4	240	L	ND	ND	ND	ND	ND	ND
JVV COIVIF ZZ	7	240	L	שויו	ואט	ואט	IND	ווט	ואט
SWCOMP23	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP24	4	160	L	ND	ND	ND	ND	ND	ND
311 33 2	•		_					, , =	
014/001/555	_	000							400
SWCOMP25	4	320	L	ND	ND	ND	ND	ND	198
SWCOMP26	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP27	4	320	L	ND	ND	ND	ND	ND	166
3VVCOIVIP2/	4	320	_ L	טאו	טאו	עוו	טויו	טוו	100

SWCOMP28	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP29	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP30	4	160	L	ND	ND	ND	ND	ND	26.4
SWCOMP31	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP32	4	320	L	ND	ND	ND	ND	ND	173
SWCOMP33	4	320	L	ND	ND	ND	ND	ND	174
SWCOMP34	4	160	L	ND	ND	ND	ND	ND	25.9
SWCOMP35	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP36	4	240	L	ND	ND	ND	ND	ND	ND

Please find the remediation photos attached herein.

The impacted area of the West Mount #1A measured 13,652 square feet. During the remediation phase, a total of 4,318 cubic yards of contaminated soil was excavated and hauled to Gandy's Disposal. A total of 5,348 cubic yards of caliche was pushed up and hauled from Gandy's Disposal to location for backfill along with 360 cubic yards of topsoil sourced from the landowner's pit. The site was contoured, sloped back to its natural grade, and broad-casted with NMSLO Loamy seed mix. Backfilling and seeding of the site was completed on December 27, 2024. Please find the final photos attached to this report.

Closure Request

On behalf of Mack Energy, Energy Staffing Services, LLC requests that the incident (NAPP2327753701) be closed for the produced water release that occurred in the pasture area of the West Mount #1A. Mack Energy and ESS certify that all information provided and that is detailed in this report to be true and correct. Both Mack Energy and ESS have complied with all applicable closure requirements for the release that occurred on the West Mount #1A.

After review of this report, if you have any questions or concerns regarding this closure request, please do not hesitate to contact the undersigned at (575)390-6397 or (575)393-9048. You may also email any issues to natalie@energystaffingllc.com.

Sincerely,

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



Attachments

Spill Notification

Initial C141 and Spill Calculator Form

Impact Map

Site Map

Rangeland and Vegetation

Classification Soil Map

FEMA National Flood Hazard Layer

Map Karst Geology Map

Wetlands Map

Watercourse Water Map

Groundwater Information

Groundwater Map

OSE POD Map

Delineation Sample Data

Delineation Sample Map and GPS Log

Lab Analysis for Delineation

Initial and Delineation Site Photos

Composite Notification

Composite Sample Data

Composite Sample Map and GPS Log

Lab analysis for Remediation

Remediation and Final Photos

Final C141

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.

	BBLS	BBLS			
LOCATION	RELEASED	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	

72.38	0	32.983718	-104.099543	
29.73	0	32.983887	-104.099136	
158.62	0	32.984507	-104.09919	
20.11	0	32.986417	-104.101312	
18.18	0	32.987519	-104.102957	
459.2	0	32.989524	-104.110031	
14.97	0	32.988148	-104.11355	
14.58	0	32.987211	-104.115205	
25.44	0	32.983495	-104.119472	
13.66	0	32.981861	-104.120784	
	29.73 158.62 20.11 18.18 459.2 14.97 14.58 25.44	29.73 0 158.62 0 20.11 0 18.18 0 459.2 0 14.97 0 14.58 0 25.44 0	29.73 0 32.983887 158.62 0 32.984507 20.11 0 32.986417 18.18 0 32.987519 459.2 0 32.989524 14.97 0 32.988148 14.58 0 32.987211 25.44 0 32.983495	29.73 0 32.983887 -104.099136 158.62 0 32.984507 -104.09919 20.11 0 32.986417 -104.101312 18.18 0 32.987519 -104.102957 459.2 0 32.989524 -104.110031 14.97 0 32.988148 -104.11355 14.58 0 32.987211 -104.115205 25.44 0 32.983495 -104.119472

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	
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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





FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 272560

From Natalie Gladden <natalie@energystaffingllc.com>

Date Thu 1/30/2025 11:27 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: <u>natalie@energystaffingllc.com</u>



From: Natalie Gladden

Sent: Wednesday, October 4, 2023 3:45 PM

To: mattbuckles@mec.com

Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 272560

WEST MOUNT 1A

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: <u>natalie@energystaffingllc.com</u>



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

Sent: Wednesday, October 4, 2023 2:55 PM

To: Natalie Gladden < <u>natalie@energystaffingllc.com</u>>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 272560

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

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2327753701,

with the following conditions:

• When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2327753701, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number. If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible	Party MAC	K ENERGY CO	RPORATION	OGRID	013837			
Contact Na	ne MATT B	UCKLES		Contact '	Telephone 575-703-1958			
Contact email mattbuckles@mec.com				Incident	Incident # (assigned by OCD)			
Contact ma: 8210	ling address	11344 Lovington	n Highway, Artes	sia NM				
			Location	n of Release S	Source			
atitude 32.	978520		(NAD 83 in c	Longitude decimal degrees to 5 dec	e <u>-104.092530</u> cimal places)			
Site Name V	VESTMOUN	NT #1A		Site Type	e PRODUCTION AREA			
Date Release Discovered 9/8/2023				API# (if a	applicable) 30-005-64381			
Unit Letter	Section	Township	Range	Co	unty			
Omi Letter	Dection	I O WILDING	Rungo	CO.	unty			
M	27	15S	28E	CHAVES (Name:				
M urface Own	27 er: State Materia	15S Federal T	28E Tribal ☐ Private Nature and all that apply and attacks.	CHAVES (Name: nd Volume of	Release fic justification for the volumes provided below)			
M urface Own	27 er: State Materia	Federal T	28E Tribal □ Private Nature and all that apply and attacked (bbls)	CHAVES (Name: nd Volume of	F Release fic justification for the volumes provided below) Volume Recovered (bbls)			
M urface Own	27 er: State Materia	Federal Tales Tolerand Tales Toleran	Private Nature and all that apply and attacked (bbls) sed (bbls) 156.17 ation of dissolved	(Name:ad Volume of the calculations or specific	Release fic justification for the volumes provided below)			
M urface Own	27 State Materia il d Water	Federal Tales Tolerand Tales Toleran	Private Nature and all that apply and attacked (bbls) sed (bbls) 156.17 ation of dissolved r >10,000 mg/l?	(Name:ad Volume of the calculations or specific	f Release fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls)0BBLS			
M urface Own ☐ Crude O ☐ Produce	27 State Materia il d Water ate	Federal Tales Tales	Private Nature and all that apply and attacked (bbls) sed (bbls) 156.17 ation of dissolved ar >10,000 mg/l? sed (bbls)	(Name:ad Volume of the calculations or specific	F Release fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls)0BBLS Yes No			
M urface Own ☐ Crude O ☑ Produce ☐ Condens	27 State Materia il d Water ate Gas	Federal Talas Tala	Private Nature and all that apply and attacked (bbls) sed (bbls) 156.17 ation of dissolved ar >10,000 mg/l? sed (bbls)	CHAVES (Name: ad Volume of the calculations or specification of the calculation	FRelease fic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls)0BBLS Yes No Volume Recovered (bbls)			

Form C-141 Page 2 State of New Mexico
Oil Conservation Division

	0	
Incident ID		
District RP		
Facility ID		
Application ID		

release as defined by 19.15.29.7(A) NMAC? Yes No	DUE TO VOLUME OF RELEASE
	to the OCD, Bratcher, Hamlet, Venegas, Griswold 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
☐ The source of the rele	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have not been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: NATAL Signature:	Date: OF ENVIRONMENTAL AND REGULATORY Date: OF 10/4/23
email: <u>natalic@energy</u>	taffingll.com Telephone: 575-390-6397
OCD Only	
Received by:	Date:

WEST MOUNT SPILL 1A

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	835.244	50.55	0.083	3504.3915	156.17	Medium Sand	
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand	
Gravely Sand	0.26	10	10	0.083	8.3	0.38	Gravely 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	0	0	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 requred (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)





WESTMOUNT #1A

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.

WESTMOUNT #1A

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

WESTMOUNT #1A

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

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	Compositio			
		Favorable year	Normal year	Unfavorable year	or forest understory vegetation	n	Rangeland	Forest understory	
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt		
Aa—Alama loam									
Alama	Loamy (R070BC007NM)	1,200	_	650	Adonis blazingstar	30			
					black grama	15			
					other perennial grasses	15			
					blue grama	10			
					bush muhly	5			
					little bluestem	5			
					other shrubs	5			
					other perennial forbs	5			
					rabo de ardilla	5			
					threeawn	5			
					yucca	5			

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

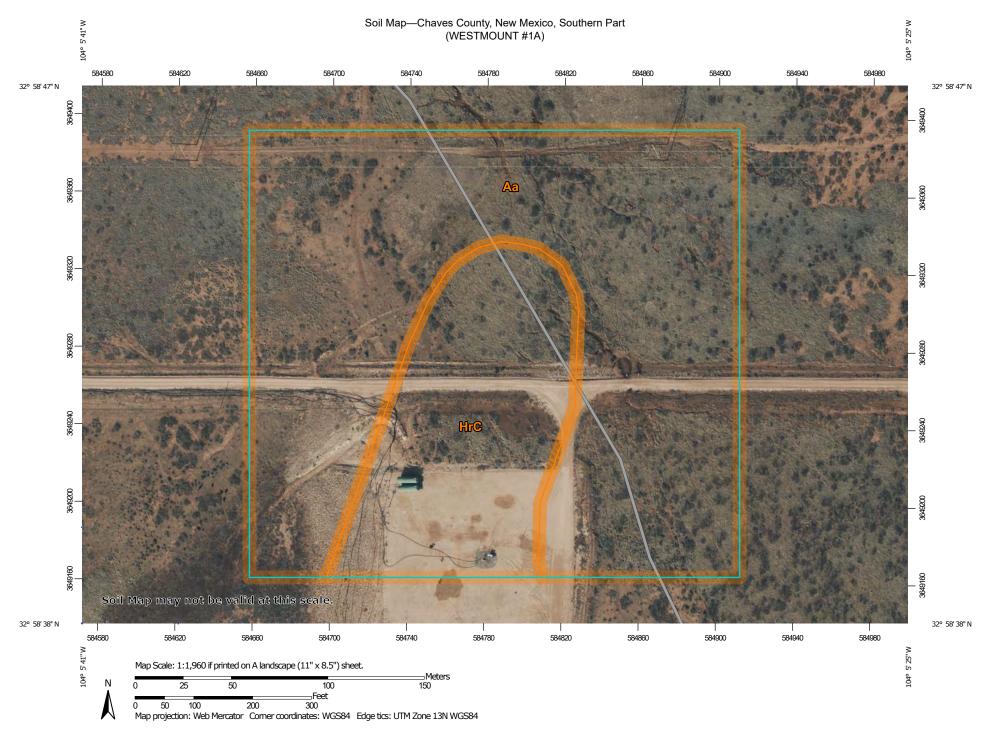
WESTMOUNT #1A

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part									
Map unit symbol and soil name	Ecological Site, Plant	Total dry-weight production			Characteristic rangeland	Compositio			
	Association, or Habitat Type	Favorable year	Normal year	Unfavorable year	or forest understory vegetation	n	Rangeland	Forest understory	
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt		
HrC—Holloman-Gypsum land complex, 3 to 5 percent slopes									
Holloman	Gyp Upland (R070BB006NM)	800	600	375	alkali sacaton	45			
					black grama	10			
					coldenia	10			
					blue grama	5			
					fourwing saltbush	5			
					gyp dropseed	5			
					gypsum grama	5			
					other shrubs	5			
					other perennial forbs	5			
					other perennial grasses	5			
Gypsum land	_	_	_	_	_				

Data Source Information

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

Survey Area Data: Version 18, Sep 7, 2023



Soil Map—Chaves County, New Mexico, Southern Part (WESTMOUNT #1A)

MAP LEGEND

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Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



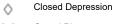
Soil Map Unit Points

Special Point Features

Blowout



Clay Spot













Miscellaneous Water

Perennial Water

Rock Outcrop

Sandy Spot

Severely Eroded Spot

Saline Spot

Sinkhole

Slide or Slip

Sodic Spot

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.

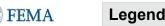
WESTMOUNT #1A

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Alama loam	10.7	73.8%
HrC	Holloman-Gypsum land complex, 3 to 5 percent slopes	3.8	26.2%
Totals for Area of Interest		14.5	100.0%

National Flood Hazard Layer FIRMette





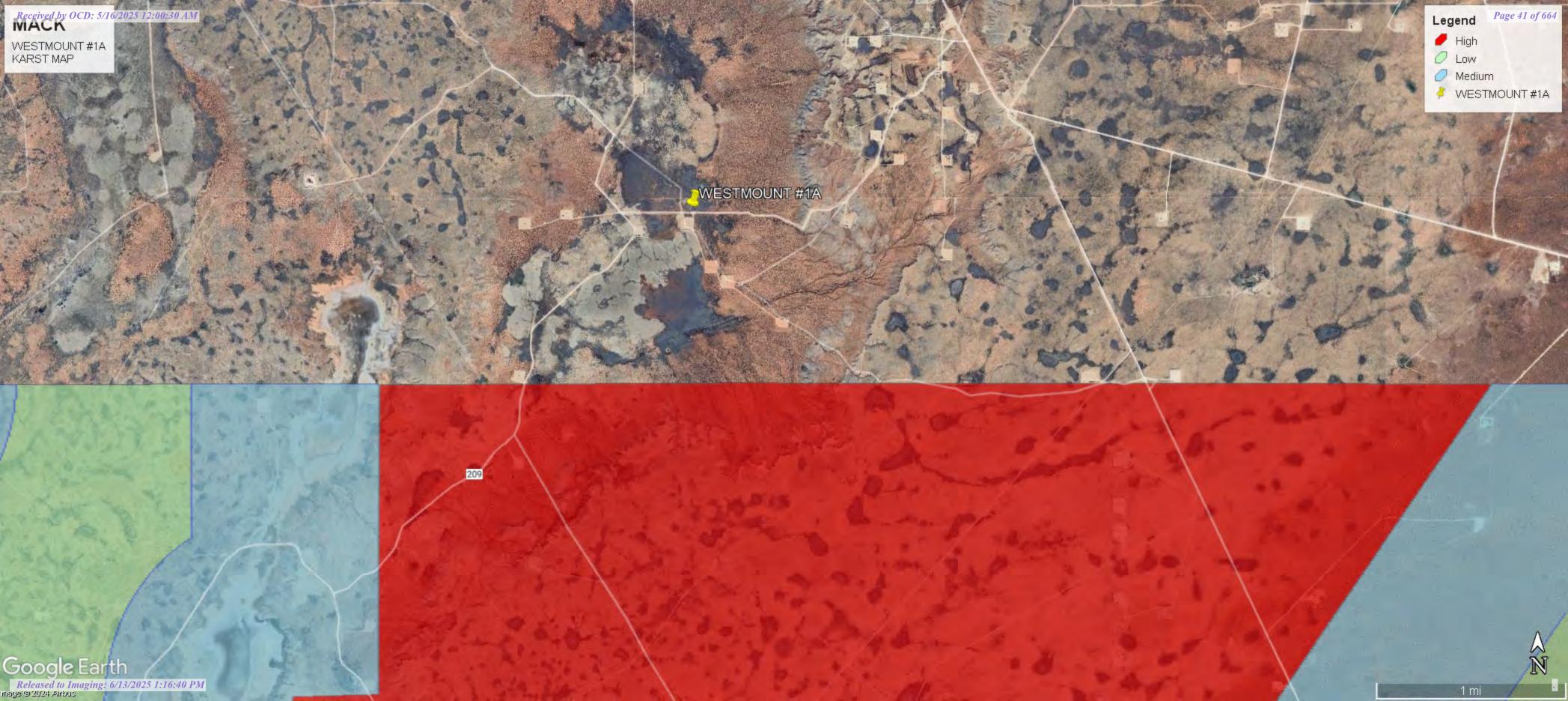
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot 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 OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS 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 6/4/2024 at 12:40 PM 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.









Page 44 of 664 Received by OCD: 5/16/2025 12:00:30 AM



New Mexico Office of the State Engineer **Wells with Well Log Information**

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 584794 Northing (Y): 3649271.2 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.

Page 45 of 664 Received by OCD: 5/16/2025 12:00:30 AM



New Mexico Office of the State Engineer **Wells with Well Log Information**

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 584794 Northing (Y): 3649271.2 Radius: 5000

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Received by OCD: 5/16/2025 12:00:30 AM Page 46 of 664



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,

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

	•						• , ,						
POD Number	POD Sub- Code basin	County	Source	q q q 6416 4		Tws Rng	y X	Y	Distance Start Date	Log File Finish Date Date	•	Depth Water Driller	License Number
RA 12428	RA	СН	Shallow	4 2 1	21	15S 28E	580579	3652317	5200 07/28/2016	08/04/2016 08/08/2016	170	125 DONALD KUEHN III	1058
RA 12429 POD1	RA	СН	Shallow	1 1 4	32	15S 28E	579093	3648401	5767 11/17/2016	11/17/2016 11/28/2016	62	27 EADES, ALAN	1044
RA 09248	RA	СН	Shallow	1 4 3	17	15S 28E	578704	3652884*	7081 07/10/1996	07/13/1996 07/25/1996	150	45 RAYMOND ANDERSON	N 1344
RA 10280	RA	СН	Shallow	4 3 3	17	15S 28E	578501	3652680*	7156 06/20/2002	07/15/2002 04/23/2003	70	40 CARREON, FERNANDO	O 1490
RA 09059	RA	СН	Shallow	2 4 4	18	15S 28E	578099	3652875*	7603 11/13/1995	01/15/1996 02/08/1997	110	35 RAYMOND ANDERSON	N 1344
RA 09342	RA	ED	Shallow	4 4 3	19	16S 29E	582737	3640640*	8872 05/02/1998	05/03/1998 05/08/1998	220	110 DELFORD MARTIN	1064
RA 05736	RA	СН	Shallow	3 2 1	24	15S 27E	575467	3652244*	9789	04/30/1973			

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 584794 Northing (Y): 3649271.2 **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.

6/4/24 10:45 AM Page 1 of 1 WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer Point of Diversion Summers

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

J

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 Plug Date:

Log File Date:08/08/2016PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield: 15 GPMCasing Size:4.50Depth Well:170 feetDepth 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



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

RA 12429 POD1

32 15S 28E

579093

Driller License: 1044

Released to Imaging: 6/13/2025 1:16:40 PM

11/28/2016

5.13

Driller Company: EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 11/17/2016

Drill Finish Date:

11/17/2016

Plug Date:

Source:

Shallow

Log File Date: **Pump Type:**

PCW Rcv Date:

Estimated Yield:

Casing Size:

Pipe Discharge Size: **Depth Well:**

62 feet

Depth Water:

27 feet

Water Bearing Stratifications:

Top Bottom Description

33 Sandstone/Gravel/Conglomerate

27 33

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

22



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:

0.7.07.000

Source: Shallow

Pump Type:

01720/1000

Pipe Discharge Size:

Estimated Yield: 2 GPM

Shallow

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



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*

000

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 **P**

Plug Date:

Log File Date:

04/23/2003

PCW Rcv Date:

Source:

Shallow

Pump Type:

SUBMER

Pipe Discharge Size: 1.25

. Ectin

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



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

RA 09059

18 15S 28E

578099 3652875*

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

Driller Name: RAYMOND ANDERSON

Drill Start Date: 11/13/1995

Drill Finish Date: 01/15/1996

Log File Date: 02/08/1997 **PCW Rcv Date:**

Plug Date: Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

4.50

Depth Well:

110 feet

Depth Water:

35 feet

Water Bearing Stratifications:

Top Bottom Description

90

60

65 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

30

*UTM location was derived from PLSS - see Help

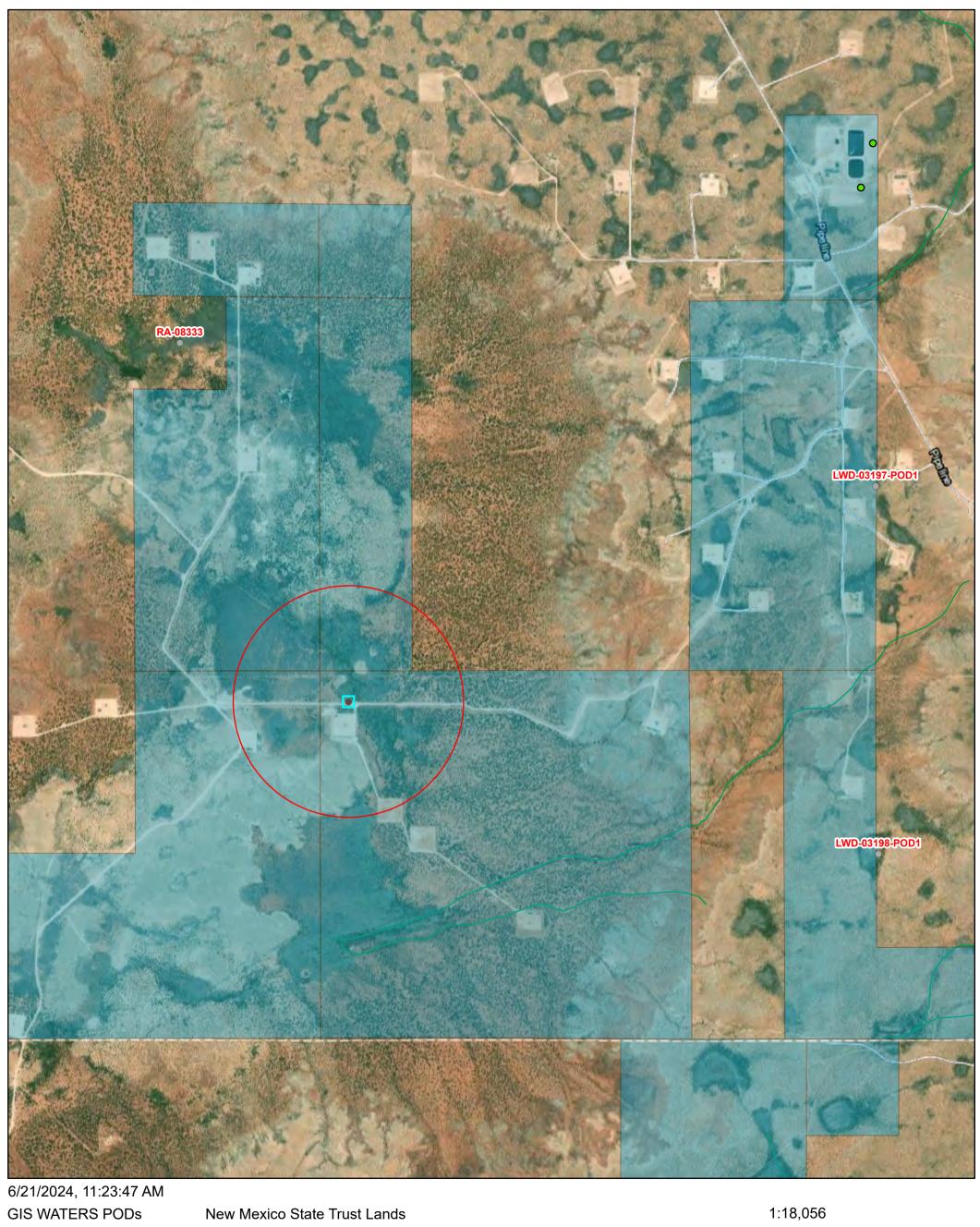
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Page 1 of 1

6/4/24 10:50 AM



OSE POD Location Map



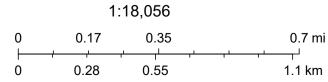
Pending

Both Estates
NHD Flowlines

OSE District Boundary

___ Artificial Path

Stream River



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

Company Name: MACK Location Name: WEST MOUNT #1A Release Date:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	>4000	L	ND	ND	ND	ND	ND	5750		
	2	240									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP2	SURF	>4000	L	ND	ND	ND	ND	ND	6460		
	2	880									
	4	640									
	6	480									
	8	400									
	10	160	L	ND	ND	ND	ND	ND	ND		
SP3	SURF	>4000	L	ND	ND	191	ND	191	23400		
	2	>4000									
	4	2480									
	6	1120									
	8	320									
	10	160	L	ND	ND	ND	ND	ND	ND		
SP4	SURF	>4000	L	ND	ND	145	ND	145	20700		
	2	>4000									
	4	3440									
	6	2160									
	8	720									
	10	400									
	12	160	L	ND	ND	ND	ND	ND	ND		
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	9730		
	2	720									
	4	560									
	6	240									

	8	160	L	ND	ND	ND	ND	ND	ND	
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	6600	
	2	240								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP7	SURF	>4000	L	ND	ND	ND	ND	ND	9940	
	2	480								
	4	400								
	6	320								
	8	160	L	ND	ND	ND	ND	ND	ND	
SP8	SURF	>4000	L	ND	ND	ND	ND	ND	19800	
	2	640								
	4	560								
	6	160								
	8	160	L	ND	ND	ND	ND	ND	ND	
SP9	SURF	>4000	L	ND	ND	ND	ND	ND	13200	
	2	400								
	4	240								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP10	SURF	160	L	ND	ND	ND	ND	ND	91.6	
	2	320								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP11	SURF	>4000	L	ND	ND	ND	ND	ND	7200	
	2	400								
	4	240								
	6	160	L	ND	ND	ND	ND	ND	ND	

SP12	SURF	>4000	L	ND	ND	ND	ND	ND	11300	
	2	>4000								
	4	3760								
	6	>4000								
	8	>4000								
	10	3440								
	12	480								
	14	400								
	16	160	L	ND	ND	ND	ND	ND	ND	
SP13	SURF	>4000	L	ND	ND	ND	ND	ND	15900	
	2	880								
	4	320								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP14	SURF	>4000	L	ND	ND	264	ND	264	25000	
	2	560								
	4	400								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP15	SURF	>4000	L	ND	ND	171	ND	171	5940	
	2	2640								
	4	1760								
	6	320								
	8	160	L	ND	ND	ND	ND	ND	ND	
SP16	SURF	>4000	L	ND	ND	ND	ND	ND	4380	
	2	>4000								
	4	2080								
	6	400								
	8	160	L	ND	ND	ND	ND	ND	ND	
SP17	SURF	3120	L	ND	ND	ND	ND	ND	3220	
	2	1840								

	4	800								
	6	240								
	8	160	L	ND	ND	ND	ND	ND	ND	
SP18	SURF	>4000	L	ND	ND	ND	ND	ND	15500	
	2	640								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP19	SURF	>4000	L	ND	ND	ND	ND	ND	14600	
	2	480								
	4	240								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP20	SURF	>4000	L	ND	ND	ND	ND	ND	15600	
	2	320								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP21	SURF	>4000	L	ND	ND	ND	ND	ND	20300	
	2	400								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP22	SURF	>4000	L	ND	ND	ND	ND	ND	20500	
	2	640								
	4	320								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP23	SURF	>4000	L	ND	ND	ND	ND	ND	21700	
	2	240								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	

SP24	SURF	>4000	L	ND	ND	ND	ND	ND	15800	
	2	400								
	4	240								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP25	SURF	>4000	L	ND	ND	29.6	ND	29.6	15600	
	2	400								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SP26	SURF	>4000	L	ND	ND	ND	ND	ND	133	
	2	320								
	4	240								
	6	160	١	ND	ND	ND	ND	ND	ND	
SP27	SURF	>4000	L	ND	ND	ND	ND	ND	18500	
	2	560								
	4	400								
	6	160	٦	ND	ND	ND	ND	ND	ND	
SP28	SURF	>4000	L	ND	ND	ND	ND	ND	307	
	2	240								
	4	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SW1	SURF	>4000	L	ND	ND	ND	ND	ND	13500	
	1	80								
	2	80	L	ND	ND	ND	ND	ND	139	
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	20800	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	22.9	
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	3080	

	1	80								
	2	80	L	ND	ND	ND	ND	ND	143	
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	16500	
	1	160								
	2	80	L	ND	ND	ND	ND	ND	150	
SW5	SURF	>4000	L	ND	ND	ND	ND	ND	19400	
	1	80								
	2	80	L	ND	ND	ND	ND	ND	143	
SW6	SURF	>4000	L	ND	ND	ND	ND	ND	275	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	221	
SW7	SURF	>4000	L	ND	ND	ND	ND	ND	3160	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	214	
SW8	SURF	>4000	L	ND	ND	ND	ND	ND	14400	
	1	320								
	2	160	L	ND	ND	ND	ND	ND	221	
SW9	SURF	>4000	L	ND	ND	ND	ND	ND	3410	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	224	
SW10	SURF	>4000	L	ND	ND	ND	ND	ND	3580	ļļ
	1	240								
	2	80	L	ND	ND	ND	ND	ND	ND	
SW11	SURF	240	L	ND	ND	ND	ND	ND	ND	ļļ
	1	400								
	2	400								

	3	240								
	4	160	L	ND	ND	ND	ND	ND	ND	
SW12	SURF	240	L	ND	ND	ND	ND	ND	271	
	1	640								
	2	160								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW13	SURF	2560	L	ND	ND	ND	ND	ND	3560	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW14	SURF	2400	L	ND	ND	ND	ND	ND	4260	
	1	320								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW15	SURF	>4000	L	ND	ND	ND	ND	ND	22800	
	1	320								
	2	160	L	ND	ND	ND	ND	ND	ND	
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	1	1920								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW17	SURF	>4000	L	ND	ND	ND	ND	ND	7720	
	1	2400								
	2	400								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW18	SURF	160	L	ND	ND	ND	ND	ND	ND	
	1	160								
	2	80	L	ND	ND	ND	ND	ND	ND	

SW19	SURF	160	L	ND	ND	ND	ND	ND	ND	
	1	80								
	2	80	L	ND	ND	ND	ND	ND	ND	
SW20	SURF	2720	L	ND	ND	ND	ND	ND	5460	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW21	SURF	80	L	ND	ND	ND	ND	ND	29.9	
	1	320								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW22	SURF	80	L	ND	ND	ND	ND	ND	50.9	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW23	SURF	>4000	L	ND	ND	ND	ND	ND	7560	
	1	>4000								
	2	2800								
	3	240								
	4	160	L	ND	ND	ND	ND	ND	ND	
SW24	SURF	800	L	ND	ND	ND	ND	ND	419	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW25	SURF	160	L	ND	ND	ND	ND	ND	66.3	<u> </u>
	1	880								ļ
	2	240								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW26	SURF	>4000	L	ND	ND	ND	ND	ND	12600	ļ
	1	640								ļ
	2	240								

	3	160	L	ND	ND	ND	ND	ND	ND	
SW27	SURF	>4000	L	ND	ND	ND	ND	ND	6950	
	1	800								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW28	SURF	2880	L	ND	ND	ND	ND	ND	2720	
	1	400								
	2	240								
	3	160								
	4	160	L	ND	ND	ND	ND	ND	ND	
SW29	SURF	240	L	ND	ND	ND	ND	ND	ND	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW30	SURF	2000	L	ND	ND	ND	ND	ND	3560	
	1	260								
	2	160	L	ND	ND	ND	ND	ND	199	
SW31	SURF	>4000	L	ND	ND	ND	ND	ND	7600	
	1	320								
	2	240	L	ND	ND	ND	ND	ND	ND	
SW32	SURF	>4000	L	ND	ND	ND	ND	ND	10400	
	1	>4000								
	2	>4000								
	3	160								
	4	80	L	ND	ND	ND	ND	ND	ND	
SW33	SURF	>4000	L	ND	ND	ND	ND	ND	12300	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	

SW34	SURF	2240	L	ND	ND	ND	ND	ND	2210	
	1	240								
	2	240	L	ND	ND	ND	ND	ND	ND	
SW35	SURF	>4000	L	ND	ND	ND	ND	ND	35600	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW36	SURF	1600	L	ND	ND	ND	ND	ND	2610	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW37	SURF	>4000	L	ND	ND	ND	ND	ND	11500	
	1	80								
	2	80	L	ND	ND	ND	ND	ND	ND	
SW38	SURF	>4000	L	ND	ND	ND	ND	ND	5660	
	1	160								
	2	80	L	ND	ND	ND	ND	ND	ND	
21112										
SW39	SURF	1600	L	ND	ND	ND	ND	ND	1950	
	1	80		ND	ND	ND	ND	ND	ND	
	2	80	L	ND	ND	ND	ND	ND	ND	
CMAC	CLIDE	160		ND	ND	ND	ND	ND	F4 F	
SW40	SURF	160 80	L	ND	ND	ND	ND	ND	54.5	
	2	80	L	ND	ND	ND	ND	ND	ND	
	Z	6 U	L	IND	ND	ND	טאו	ND	ND	
SW41	SURF	1360	L	ND	ND	ND	ND	ND	2080	
3441	30KF	160	L	IND	טאו	טאו	טאו	טוו	2000	
	2	160	L	ND	ND	ND	ND	ND	ND	
	Z	100	L	שוו	עוו	ND	ND	NU	NU	
SW42	SURF	640	L	ND	ND	ND	ND	ND	575	
30042	JUNE	040	L	טוו	טוו	טא	טוו	טא	5/5	

	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW43	SURF	>4000	L	ND	ND	ND	ND	ND	21700	
	1	640								
	2	240								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW44	SURF	2400	L	ND	ND	ND	ND	ND	4630	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW45	SURF	320	L	ND	ND	ND	ND	ND	ND	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW46	SURF	480	L	ND	ND	ND	ND	ND	256	
	1	800								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW47	SURF	640	L	ND	ND	ND	ND	ND	566	
	1	640								
	2	160								
	3	80	L	ND	ND	ND	ND	ND	ND	
SW48	SURF	320	L	ND	ND	ND	ND	ND	ND	
	1	560								
	2	240								
	3	80	L	ND	ND	ND	ND	ND	ND	
SW49	SURF	160	L	ND	ND	ND	ND	ND	ND	
	1	1440								
	2	400								

	3	160								
	4	80	L	ND	ND	ND	ND	ND	ND	
SW50	SURF	160	L	ND	ND	ND	ND	ND	ND	
	1	1200								
	2	720								
	3	320								
	4	160	L	ND	ND	ND	ND	ND	ND	





COMPANY: MACK ENERGY LOCATION: WEST MOUNT #1A

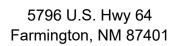
POINT	LATITUDE	LONGITUDE
SP1	32.978527°	-104.092683°
SP2	32.978523°	-104.092790°
SP3	32.978531°	-104.092952°
SP4	32.978530°	-104.093067°
SP5	32.978534°	-104.093189°
SP6	32.978537°	-104.093291°
SP7	32.978531°	-104.093423°
SP8	32.978716°	-104.093334°
SP9	32.978638°	-104.093452°
SP10	32.978545°	-104.093512°
SP11	32.978440°	-104.093557°
SP12	32.978324°	-104.093604°
SP13	32.978263°	-104.093669°
SP14	32.978210°	-104.093771°
SP15	32.978152°	-104.093838°
SP16	32.978085°	-104.093788°
SP17	32.978077°	-104.093877°
SP18	32.978027°	-104.093833°
SP19	32.977991°	-104.093930°
SP20	32.977915°	-104.094012°
SP21	32.977852°	-104.094107°
SP22	32.977774°	-104.094182°
SP23	32.977692°	-104.094229°
SP24	32.977616°	-104.094268°
SP25	32.977530°	-104.094286°
SW1	32.978543°	-104.092626°
SW2	32.978500°	-104.092730°
SW3	32.978517°	-104.092869°
SW4	32.978504°	-104.093004°
SW5	32.978518°	-104.093127°
SW6	32.978516°	-104.093252°
SW7	32.978510°	-104.093398°
SW8	32.978490°	-104.093534°
SW9	32.978372°	-104.093550°
SW10	32.978309°	-104.093612°
SW11	32.978226°	-104.093677°
SW12	32.978188°	-104.093731°
SW13	32.978106°	-104.093750°
SW14	32.978042°	-104.093776°
SW15	32.977995°	-104.093865°
SW16	32.977952°	-104.093928°

SW17	32.977902°	-104.093986°
SW18	32.977868°	-104.094043°
SW19	32.977829°	-104.094096°
SW20	32.977775°	-104.094150°
SW21	32.977710°	-104.094191°
SW22	32.977640°	-104.094221°
SW23	32.977570°	-104.094249°
SW24	32.977490°	-104.094271°
SW25	32.977548°	-104.094307°
SW26	32.977603°	-104.094298°
SW27	32.977669°	-104.094264°
SW28	32.977744°	-104.094237°
SW29	32.977812°	-104.094190°
SW30	32.977856°	-104.094127°
SW31	32.977913°	-104.094062°
SW32	32.977969°	-104.094004°
SW33	32.978039°	-104.093947°
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SW35	32.978171°	-104.093853°
SW36	32.978254°	-104.093839°
SW37	32.978259°	-104.093725°
SW38	32.978296°	-104.093646°
SW39	32.978380°	-104.093595°
SW40	32.978478°	-104.093569°
SW41	32.978548°	-104.093531°
SW42	32.978636°	-104.093471°
SW43	32.978704°	-104.093398°
SW44	32.978750°	-104.093294°
SW45	32.978676°	-104.093366°
SW46	32.978567°	-104.093453°
SW47	32.978564°	-104.093340°
SW48	32.978561°	-104.093195°
SW49	32.978568°	-104.092995°
SW50	32.978536°	-104.092838°

Report to:

Natalie Gladden





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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E309161

Job Number: 20046-0001

Received: 9/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/25/23

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: 9/25/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E309161

Date Received: 9/22/2023 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/22/2023 8:00:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Donortod
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/25/23 15:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 SURF	E309161-01A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP2 SURF	E309161-02A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP3 SURF	E309161-03A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP4 SURF	E309161-04A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP5 SURF	E309161-05A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP6 SURF	E309161-06A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP7 SURF	E309161-07A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP8 SURF	E309161-08A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP9 SURF	E309161-09A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP10 SURF	E309161-10A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP11 SURF	E309161-11A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP12 SURF	E309161-12A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP13 SURF	E309161-13A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP14 SURF	E309161-14A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP15 SURF	E309161-15A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP16 SURF	E309161-16A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP17 SURF	E309161-17A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP18 SURF	E309161-18A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP19 SURF	E309161-19A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP20 SURF	E309161-20A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP21 SURF	E309161-21A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP22 SURF	E309161-22A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP23 SURF	E309161-23A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP24 SURF	E309161-24A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP25 SURF	E309161-25A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP26 SURF	E309161-26A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP27 SURF	E309161-27A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.
SP28 SURF	E309161-28A	Soil	09/20/23	09/22/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP1 SURF E309161-01

		E309101-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/22/23	
Toluene	ND	0.0250	1	09/22/23	09/22/23	
o-Xylene	ND	0.0250	1	09/22/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/22/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		81.7 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2338107
Chloride	5750	100	5	09/22/23	09/23/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP2 SURF

E309161-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/22/23	
Toluene	ND	0.0250	1	09/22/23	09/22/23	
o-Xylene	ND	0.0250	1	09/22/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/22/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.2 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		80.9 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338107
Chloride	6460	200	10	09/22/23	09/23/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP3 SURF E309161-03

		E309101-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
					,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/22/23	
Toluene	ND	0.0250	1	09/22/23	09/22/23	
o-Xylene	ND	0.0250	1	09/22/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/22/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	191	125	5	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	250	5	09/22/23	09/22/23	
Surrogate: n-Nonane		103 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2338107
Chloride	23400	2000	100	09/22/23	09/23/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP4 SURF E309161-04

		E307101-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/22/23	
Toluene	ND	0.0250	1	09/22/23	09/22/23	
o-Xylene	ND	0.0250	1	09/22/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/22/23	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	145	125	5	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	250	5	09/22/23	09/22/23	
Surrogate: n-Nonane		88.9 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2338107
Chloride	20700	2000	100	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP5 SURF E309161-05

		1207101 03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/22/23	
oluene	ND	0.0250	1	09/22/23	09/22/23	
-Xylene	ND	0.0250	1	09/22/23	09/22/23	
,m-Xylene	ND	0.0500	1	09/22/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/22/23	
urrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	09/22/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/22/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	09/22/23	09/22/23	
Sonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
urrogate: n-Nonane		78.1 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338107
Chloride	9730	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP6 SURF

E309161-06						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		76.6 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2338107
Chloride	6600	400	20	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP7 SURF E309161-07

		E309101-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		79.4 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2338107
Chloride	9940	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP8 SURF

E309161-08						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		78.4 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338107
Chloride	19800	2000	100	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP9 SURF E309161-09

		E309101-09				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
	mg/kg	mg/kg	Analy	•		Batch: 2338095
Volatile Organics by EPA 8021B Benzene	ND	0.0250	1	09/22/23	09/23/23	Daten. 2330073
	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND ND	0.0230	1	09/22/23	09/23/23	
p,m-Xylene Total Xylenes	ND ND	0.0300	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.2 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		78.6 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2338107
Chloride	13200	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP10 SURF

E309161-10						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
o,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.0 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		81.1 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2338107
Chloride	91.6	20.0	1	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP11 SURF

E309161-11						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.5 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		76.3 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338107
Chloride	7200	400	20	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP12 SURF

E309161-12						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		82.8 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338107
Chloride	11300	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP13 SURF E309161-13

		E30/101-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
o,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.7 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/22/23	
Surrogate: n-Nonane		79.3 %	50-200	09/22/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2338107
Chloride	15900	1000	50	09/22/23	09/24/23	



Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP14 SURF

E309161-14						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	264	125	5	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	250	5	09/22/23	09/23/23	
Surrogate: n-Nonane		88.0 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2338107
Chloride	25000	2000	100	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP15 SURF

E309161-15						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
o,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	171	125	5	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	250	5	09/22/23	09/23/23	
Surrogate: n-Nonane		76.5 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2338107
Chloride	5940	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP16 SURF

E309161-16						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		82.4 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2338107
Chloride	4380	400	20	09/22/23	09/24/23	



Anions by EPA 300.0/9056A

Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP17 SURF

E309161-17 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2338095 mg/kg mg/kg Volatile Organics by EPA 8021B 09/22/23 09/23/23 ND 0.0250 Benzene 1 09/22/23 09/23/23 Ethylbenzene ND 0.0250ND 0.02501 09/22/23 09/23/23 Toluene 1 09/22/23 09/23/23 o-Xylene ND 0.02501 09/22/23 09/23/23 ND 0.0500 p,m-Xylene 09/22/23 09/23/23 1 Total Xylenes ND 0.025095.7 % 09/22/23 09/23/23 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: IY Batch: 2338095 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 09/23/23 ND 20.0 1 09/22/23 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 85.3 % 09/22/23 09/23/23 70-130 mg/kg mg/kg Analyst: KM Batch: 2338094 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 09/22/23 09/23/23 Diesel Range Organics (C10-C28) ND 09/22/23 09/23/23 Oil Range Organics (C28-C36) 50.0 1 80.4 % 09/23/23 Surrogate: n-Nonane 50-200 09/22/23

mg/kg

400

mg/kg

3220

Analyst: BA

09/22/23

09/24/23

20



Batch: 2338107

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP18 SURF

		E309161-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		77.9 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338107
Chloride	15500	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP19 SURF E309161-19

		E507101 17				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		79.0 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2338107
Chloride	14600	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP20 SURF

		E309161-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2338095
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: IY		Batch: 2338095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2338094
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		80.5 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: BA		Batch: 2338107
Chloride	15600	1000	50	09/22/23	09/24/23	·



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP21 SURF

		E309161-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2338097
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: IY		Batch: 2338097
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2338098
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		79.2 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2338106
Chloride	20300	1000	50	09/22/23	09/24/23	



Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP22 SURF

		E309161-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2338097
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2338097
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2338098
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		78.8 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2338106
Chloride	20500	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP23 SURF

		E309161-23				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338097
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2338097
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338098
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		80.9 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338106
Chloride	21700	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP24 SURF

E309161-24								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338097		
Benzene	ND	0.0250	1	09/22/23	09/23/23			
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23			
Toluene	ND	0.0250	1	09/22/23	09/23/23			
o-Xylene	ND	0.0250	1	09/22/23	09/23/23			
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23			
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23			
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	09/22/23	09/23/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338097		
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	09/22/23	09/23/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2338098			
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23			
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23			
Surrogate: n-Nonane		82.6 %	50-200	09/22/23	09/23/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2338106		
Chloride	15800	1000	50	09/22/23	09/24/23	·		



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP25 SURF

		E309161-25				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2338097
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338097
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2338098
Diesel Range Organics (C10-C28)	29.6	25.0	1	09/22/23	09/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/25/23	
Surrogate: n-Nonane		80.0 %	50-200	09/22/23	09/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338106
Chloride	15600	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP26 SURF

E309161-26									
Reporting									
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2338097			
Benzene	ND	0.0250	1	09/22/23	09/23/23				
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23				
Toluene	ND	0.0250	1	09/22/23	09/23/23				
o-Xylene	ND	0.0250	1	09/22/23	09/23/23				
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23				
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23				
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	09/22/23	09/23/23				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338097			
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23				
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	09/22/23	09/23/23				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338098			
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/25/23				
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/25/23				
Surrogate: n-Nonane		85.6 %	50-200	09/22/23	09/25/23				
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2338106			
Chloride	133	40.0	2	09/22/23	09/24/23				



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP27 SURF

		E309161-27				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338097
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338097
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2338098
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/25/23	
Surrogate: n-Nonane		86.7 %	50-200	09/22/23	09/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2338106
Chloride	18500	1000	50	09/22/23	09/24/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

SP28 SURF

T-200	
E309	161-28

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2338097
Benzene	ND	0.0250	1	09/22/23	09/23/23	
Ethylbenzene	ND	0.0250	1	09/22/23	09/23/23	
Toluene	ND	0.0250	1	09/22/23	09/23/23	
o-Xylene	ND	0.0250	1	09/22/23	09/23/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/23/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/23/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2338097
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	09/22/23	09/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2338098
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/25/23	
Surrogate: n-Nonane		68.8 %	50-200	09/22/23	09/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2338106
Chloride	307	40.0	2	09/22/23	09/24/23	



		QC 50	41111110	ii y Data					
Mack Energy		Project Name:	W	est Mount #1A					Reported:
7 W. Compress Road		Project Number:	20	0046-0001					
Artesia NM, 88210		Project Manager:	N	atalie Gladden				9	/25/2023 3:06:28PM
		Volatile O	ganics l	by EPA 8021	В				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338095-BLK1)							Prepared: 0	9/22/23 An	alyzed: 09/22/23
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	7.45		8.00		93.1	70-130			
LCS (2338095-BS1)							Prepared: 0	9/22/23 An	alyzed: 09/22/23
Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.46	0.0250	5.00		89.3	70-130			
Toluene	4.64	0.0250	5.00		92.7	70-130			
o-Xylene	4.59	0.0250	5.00		91.9	70-130			
p,m-Xylene	9.24	0.0500	10.0		92.4	70-130			
Total Xylenes	13.8	0.0250	15.0		92.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			
Matrix Spike (2338095-MS1)				Source: E	309161-	04	Prepared: 0	9/22/23 An	alyzed: 09/22/23
Benzene	4.51	0.0250	5.00	ND	90.1	54-133			
Ethylbenzene	4.35	0.0250	5.00	ND	87.0	61-133			
Toluene	4.51	0.0250	5.00	ND	90.3	61-130			
o-Xylene	4.49	0.0250	5.00	ND	89.9	63-131			
p,m-Xylene	9.01	0.0500	10.0	ND	90.1	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	90.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.4	70-130			
Matrix Spike Dup (2338095-MSD1)				Source: E	309161-	04	Prepared: 0	9/22/23 An	alyzed: 09/22/23
Benzene	4.46	0.0250	5.00	ND	89.2	54-133	1.01	20	
Ethylbenzene	4.31	0.0250	5.00	ND	86.1	61-133	0.979	20	
Toluene	4.46	0.0250	5.00	ND	89.3	61-130	1.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	63-131	1.13	20	
p,m-Xylene Total Xylenes	8.92 13.4	0.0500 0.0250	10.0 15.0	ND ND	89.2 89.1	63-131 63-131	1.06 1.08	20 20	



70-130

Surrogate: 4-Bromochlorobenzene-PID

		QC 50	411111114	iry Data						
Mack Energy 7 W. Compress Road		Project Name: Project Number:		West Mount #1A 20046-0001					Reported:	
Artesia NM, 88210		Project Manager:	Na	atalie Gladden					9/25/2023 3:06:28PM	
		Volatile O	ganics b	y EPA 8021	В		Analyst: IY			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2338097-BLK1)							Prepared: 0	9/22/23 A	nalyzed: 09/23/23	
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	7.64		8.00		95.5	70-130				
LCS (2338097-BS1)							Prepared: 0	9/22/23 A	nalyzed: 09/23/23	
Benzene	4.40	0.0250	5.00		87.9	70-130				
Ethylbenzene	4.34	0.0250	5.00		86.7	70-130				
Toluene	4.38	0.0250	5.00		87.6	70-130				
o-Xylene	4.39	0.0250	5.00		87.7	70-130				
p,m-Xylene	8.84	0.0500	10.0		88.4	70-130				
Total Xylenes	13.2	0.0250	15.0		88.1	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130				
Matrix Spike (2338097-MS1)				Source: E	309161-	28	Prepared: 0	ared: 09/22/23 Analyzed: 09/23/23		
Benzene	4.78	0.0250	5.00	ND	95.6	54-133				
Ethylbenzene	4.67	0.0250	5.00	ND	93.5	61-133				
Toluene	4.75	0.0250	5.00	ND	94.9	61-130				
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131				
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131				
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131				
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.6	70-130				
Matrix Spike Dup (2338097-MSD1)				Source: E	309161-	28			nalyzed: 09/23/23	
Benzene	4.74	0.0250	5.00	ND	94.7	54-133	0.950	20		
Ethylbenzene	4.65	0.0250	5.00	ND	93.1	61-133	0.439	20		
Toluene	4.71	0.0250	5.00	ND	94.1	61-130	0.845	20		
o-Xylene	4.70	0.0250	5.00	ND	94.1	63-131	0.715	20		
	0.40	0.0500	10.0	NID	0.4.0	(2.121	0.264	20		
p,m-Xylene Total Xylenes	9.49 14.2	0.0500 0.0250	10.0 15.0	ND ND	94.9 94.6	63-131 63-131	0.364 0.480	20 20		

8.00

7.67

95.9

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

Artesia NM, 88210		Project Manager	r: Na	ntalie Gladder	1				9/25/2023 3:06:28PM		
	Non	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		
Blank (2338095-BLK1)		Prepared: 0					Prepared: 09/22/23 Analyzed: 09/22/23				
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130					
LCS (2338095-BS2)							Prepared: 0	9/22/23 Ar	nalyzed: 09/22/23		
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0		79.8	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130					
Matrix Spike (2338095-MS2)				Source:	Source: E309161-04			Prepared: 09/22/23 Analyzed: 09/22/23			
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.1	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130					
Matrix Spike Dup (2338095-MSD2)				Source:	E309161-	04	Prepared: 0	9/22/23 Ar	nalyzed: 09/22/23		
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.3	70-130	1.29	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.2	70-130					



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	_
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	n				9/25/2023 3:06:28PM
	Nor	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
Blank (2338097-BLK1)							Pranarad: 0	0/22/23	Analyzed: 09/23/23
Gasoline Range Organics (C6-C10)	ND	20.0					1 repared. 0	9122123	Anaryzed. 09/23/23
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36	20.0	8.00		92.1	70-130			
LCS (2338097-BS2)							Prepared: 0	9/22/23	Analyzed: 09/23/23
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
Matrix Spike (2338097-MS2)				Source: E309161-28 Prepa			Prepared: 0	9/22/23	Analyzed: 09/23/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			
Matrix Spike Dup (2338097-MSD2)				Source:	E309161-	28	Prepared: 0	9/22/23	Analyzed: 09/23/23
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.7	70-130	7.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			ç	0/25/2023 3:06:28PN	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: KM		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2338094-BLK1)							Prepared: 0	9/22/23 An	alyzed: 09/22/23	
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	45.5		50.0		91.0	50-200				
LCS (2338094-BS1)							Prepared: 0	9/22/23 An	alyzed: 09/22/23	
Diesel Range Organics (C10-C28)	226	25.0	250		90.2	38-132				
Surrogate: n-Nonane	39.6		50.0		79.1	50-200				
Matrix Spike (2338094-MS1)				Source: E309161-01			Prepared: 0	9/22/23 An	alyzed: 09/22/23	
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132				
Surrogate: n-Nonane	38.4		50.0		76.9	50-200				
Matrix Spike Dup (2338094-MSD1)				Source:	E309161-	01	Prepared: 0	9/22/23 An	alyzed: 09/22/23	
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132	0.592	20		
Surrogate: n-Nonane	38.8		50.0		77.6	50-200				

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number: 2	20046-0001	-
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				9/25/2023 3:06:28PN	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: KM	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2338098-BLK1)							Prepared: 0	9/22/23 Aı	nalyzed: 09/23/23	
Diesel Range Organics (C10-C28)	ND	25.0								
il Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	45.1		50.0		90.2	50-200				
LCS (2338098-BS1)							Prepared: 0	9/22/23 Aı	nalyzed: 09/23/23	
Diesel Range Organics (C10-C28)	234	25.0	250		93.6	38-132				
urrogate: n-Nonane	43.4		50.0		86.9	50-200				
Matrix Spike (2338098-MS1)				Source:	E309161-2	25	Prepared: 0	9/22/23 Aı	nalyzed: 09/23/23	
Diesel Range Organics (C10-C28)	263	25.0	250	29.6	93.5	38-132				
urrogate: n-Nonane	40.0		50.0		80.1	50-200				
Matrix Spike Dup (2338098-MSD1)				Source:	E309161-2	25	Prepared: 0	9/22/23 Aı	nalyzed: 09/23/23	
Diesel Range Organics (C10-C28)	263	25.0	250	29.6	93.2	38-132	0.264	20		
urrogate: n-Nonane	39.4		50.0		78.9	50-200				

Chloride

QC Summary Data

Mack Energy 7 W. Compress Road	Project Name: Project Number:	West Mount #1A 20046-0001	Reported:					
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/25/2023 3:06:28PM					
Anima ka EDA 200 0/005/ A								

Artesia NWI, 88210		Project Manage	r: Na	italie Gladden					9/23/2023 3.00.28FWI	
Anions by EPA 300.0/9056A Analyst: BA										
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %		
Blank (2338106-BLK1)							Prepared: 0	9/22/23	Analyzed: 09/24/23	
Chloride	ND	20.0								
LCS (2338106-BS1)							Prepared: 0	9/22/23	Analyzed: 09/24/23	
Chloride	254	20.0	250		102	90-110				
Matrix Spike (2338106-MS1)				Source:	E309161-	21	Prepared: 0	9/22/23	Analyzed: 09/24/23	
Chloride	19700	1000	250	20300	NR	80-120			M4	
Matrix Spike Dup (2338106-MSD1)				Source:	E309161-	21	Prepared: 0	9/22/23	Analyzed: 09/24/23	

250

80-120

NR

20200

1000



Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount #1 <i>E</i>	1				Reported:
Artesia NM, 88210		Project Manager		atalie Gladden					9/25/2023 3:06:28PM
		Anions	by EPA 3	300.0/9056 <i>A</i>					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338107-BLK1)							Prepared: 0	9/22/23 A	nalyzed: 09/23/23
Chloride	ND	20.0							
LCS (2338107-BS1)							Prepared: 0	9/22/23 A	analyzed: 09/23/23
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2338107-MS1)				Source:	E 3 09161-0)1	Prepared: 0	9/22/23 A	analyzed: 09/23/23
Chloride	5950	100	250	5750	78.1	80-120			M4
Matrix Spike Dup (2338107-MSD1)				Source:	E309161-()1	Prepared: 0	9/22/23 A	analyzed: 09/23/23
Chloride	6070	100	250	5750	128	80-120	2.07	20	M4

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

Г	Mack Energy	Project Name:	West Mount #1A	
ı	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	09/25/23 15:06

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

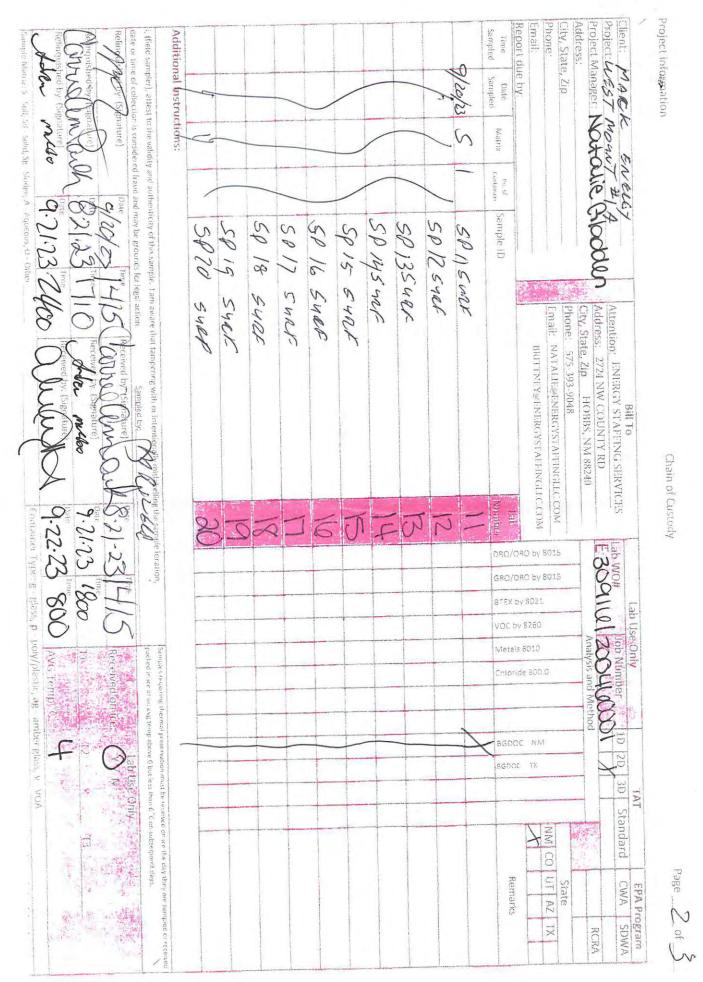
Note (1): Methods marked with ** are non-accredited methods.

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



Project information

							Bill To				La	b Us	e On	V	16	3 1			TAT		EPA P	rogram
Client: /	MACK	ENR	RGY	4		tention ENERG	Y STAFFING SERVI	CES	Lah	WOH			Job i	Vumil	er	1	D	2D 3	0 5	tandard	CWA	SDWA
roject:	WEST	MOUNT	1000	adden	A	ddress: 2724 NW	COUNTYRD		F 2	50	1110	11	20	DU	000	DC		X				
Project A	Aanager:	pto	いりつよ	home	A	doress: 2/24 NW	HOBBS, NM 88240				110		Analy	sis ar	d Met	hod	Barriel Simboli or					RCRA
Address:			100000000			hone: 575-393-90														W S R.	L	1,
City, Stat	e, Zip		Name of Street	× + 10 ====		mail: NATALIEME	NERGYSTAFFINGLLO	COM.	8015	8015						and the same				Will co	State	TTVI
Phone:			**************************************	the tracket and the same			ENERGYSTALFINGLI		08 ye	9 80 90 %	14	99	0	0.00		-	NN	*	or Carles State of St	NIVI CO	UT AZ	17
Email: Report d	lue hy:			- Laboratory Marine Marine H	EN S	DISTITUTE		-	30%	RO 6	by 8021	V 826	5 6010	8			1	X.			1	1
Time	Date		Mc of	Sample ID	and the same say of the			Lat	DRO/ORO by	GRO/DRO by	BTEX	VOC 5v 8260	Metals	Chloride 300		1	BGDOC	SGDOC			Remark	
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1 (field sa	moler) atlest	to the validi	ty and authe	nticity of this samp	ole. Lam av	vare that tampering with	ti or intentional mislabel	ling the sam	ple loca	ation,			Sam	iples rec ked in a	e at an av	ermal f e temi	preserv p above	ation mu of but les	s than 6°	Consubsequen	days.)
date or his	ne of collection	r is conside	red fraud and	d may be grounds	for legal ac	tion / Sam	interchive (M) E	1070	11			-							-	Z.1,2145	THE RESERVE	TIT.
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Page 44 of 46

Received by OCD: 5/16/2025 12:00:30 AM

Page 3 of 3 Chain of Custody Project information EPA Program TAT Lab Use Only Client: Mek Eveloy
Project: West round #/A
Project Manager: Notable Chooling Address: 2724 NW COUNTY RD Bill To 3D Standard CWA SDWA lob Number 11 Attention: ENERGY STAFFING SERVICES 1D 2D Lab WO# RCRA City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 City, State, Zip State Email: NATALIE@ENERGYSTAFFINGLLC.COM GRO/DRO by 8015 Phone: NM CO UT AZ TX BTEX by 8021 VOC by 8260 Email: BRITTNEY@ENERGYSTAFFINGLLC.COM Metals 5010 Report due by: Lab Remarks Time Date Ne of Sample ID Matrix **Number** Containers Sampled Sampled 9/29/23 5 SP23 SURP SP24 SURP SP25 SURP SP26 SURP SP27 SURP SP28 SURF Additional Instructions: Samples requiring thermal preservation must be received on ice the day they are samples or received , (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, acked 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: all 8:21:25 1710 Index musso 9.21.23 1800

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

Printed: 9/22/2023 2:59:19PM

Envirotech Analytical Laboratory

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:	09/22/23 0	8:00	Work Order ID:	E309161
Phone:	(575) 390-6397	Date Logged In:	09/21/23 1	5:39	Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	09/25/23 1	7:00 (1 day TAT)		
Chain of	Constadar (COC)					
	Custody (COC)		37			
	he sample ID match the COC? he number of samples per sampling site location mat	ch the COC	Yes			
	amples dropped off by client or carrier?	en uie eoe	Yes Yes	c	3	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No	Carrier: <u>C</u>	<u>Courier</u>	
	ill samples received within holding time?	nea unary ses.	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic	•			Commen	ts/Resolution
Sample T	<u> Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not prov	ided on COC per
Sample (<u>Cooler</u>				client.	
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e 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			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes			
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>			
	<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field Lal	<u>bet</u> field sample labels filled out with the minimum info	ation				
	ample ID?	illiation.	Yes			
	Date/Time Collected?		Yes			
C	Collectors name?		No			
	Preservation					
	the COC or field labels indicate the samples were pr	eserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved m	netals?	No			
_	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphas		No			
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcontr	ract Laboratory					
	amples required to get sent to a subcontract laborator	•	No			
29. Was a	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: NA	
Client II	<u>nstruction</u>					
1						
_						0
Signat	ture of client authorizing changes to the COC or sample disp	position.			Date	envirotech I

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311051

Job Number: 20046-0001

Received: 11/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/8/23

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: 11/8/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311051

Date Received: 11/7/2023 8:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2023 8:20:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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mgonzales@envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported.
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/08/23 14:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 1- Surf	E311051-01A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 2 - SURF	E311051-02A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 3- SURF	E311051-03A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 4- SURF	E311051-04A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 5- SURF	E311051-05A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 6- SURF	E311051-06A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 7- SURF	E311051-07A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 8- SURF	E311051-08A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 9 SURF	E311051-09A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.
SW 10- SURF	E311051-10A	Solid	11/03/23	11/07/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 1- Surf E311051-01

		E311051-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23	
Surrogate: n-Nonane		95.8 %	50-200	11/07/23	11/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345042
Chloride	13500	400	20	11/07/23	11/07/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 2 - SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23	
Surrogate: n-Nonane		90.1 %	50-200	11/07/23	11/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2345042
	20800	400	20	11/07/23	11/07/23	<u> </u>



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 3- SURF

		E311051-03						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2345033		
Benzene	ND	0.0250	1	11/07/23	11/07/23			
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23			
Toluene	ND	0.0250	1	11/07/23	11/07/23			
o-Xylene	ND	0.0250	1	11/07/23	11/07/23			
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23			
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23			
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	11/07/23	11/07/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2345033		
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	11/07/23	11/07/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2345034		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23			
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23			
Surrogate: n-Nonane		94.1 %	50-200	11/07/23	11/07/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2345042		
Chloride	3080	400	20	11/07/23	11/07/23			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 4- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23	
Surrogate: n-Nonane		98.3 %	50-200	11/07/23	11/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2345042
Chloride	16500	400	20	11/07/23	11/07/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 5- SURF

E311051-05	

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23	
Surrogate: n-Nonane		92.3 %	50-200	11/07/23	11/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345042
Chloride	19400	400	20	11/07/23	11/07/23	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 6- SURF

E311051-06							
		Reporting					
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2345033	
Benzene	ND	0.0250	1	11/07/23	11/07/23		
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23		
Toluene	ND	0.0250	1	11/07/23	11/07/23		
o-Xylene	ND	0.0250	1	11/07/23	11/07/23		
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23		
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23		
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	11/07/23	11/07/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2345033	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	11/07/23	11/07/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23		
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23		
Surrogate: n-Nonane		96.7 %	50-200	11/07/23	11/07/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2345042	

20.0

275

11/07/23

11/07/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 7- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/07/23	
Surrogate: n-Nonane		93.9 %	50-200	11/07/23	11/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2345042
Chloride	3160	400	20	11/07/23	11/07/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 8- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
Surrogate: n-Nonane		96.3 %	50-200	11/07/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2345042
Chloride	14400	400	20	11/07/23	11/07/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 9 SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345033
Benzene	ND	0.0250	1	11/07/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/07/23	11/07/23	
Toluene	ND	0.0250	1	11/07/23	11/07/23	
o-Xylene	ND	0.0250	1	11/07/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/07/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/07/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345033
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	11/07/23	11/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
Surrogate: n-Nonane		96.5 %	50-200	11/07/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2345042
Chloride	3410	400	20	11/07/23	11/07/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

SW 10- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345033
ND	0.0250	1	11/07/23	11/07/23	
ND	0.0250	1	11/07/23	11/07/23	
ND	0.0250	1	11/07/23	11/07/23	
ND	0.0250	1	11/07/23	11/07/23	
ND	0.0500	1	11/07/23	11/07/23	
ND	0.0250	1	11/07/23	11/07/23	
	98.8 %	70-130	11/07/23	11/07/23	
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345033
ND	20.0	1	11/07/23	11/07/23	
	90.5 %	70-130	11/07/23	11/07/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2345034
ND	25.0	1	11/07/23	11/08/23	
ND	50.0	1	11/07/23	11/08/23	
	96.6 %	50-200	11/07/23	11/08/23	
mg/kg	mg/kg	Analys	t: BA		Batch: 2345042
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 90.5 % mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 98.8 % 70-130 mg/kg mg/kg Analys ND 20.0 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/07/23 ND 0.0250 1 11/07/23 ND 0.0250 1 11/07/23 ND 0.0250 1 11/07/23 ND 0.0500 1 11/07/23 ND 0.0250 1 11/07/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/07/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/07/23 ND 25.0 1 11/07/23 ND 50.0 1 11/07/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/07/23 11/07/23 ND 0.0250 1 11/07/23 11/07/23 ND 0.0250 1 11/07/23 11/07/23 ND 0.0500 1 11/07/23 11/07/23 ND 0.0250 1 11/07/23 11/07/23 ND 0.0250 1 11/07/23 11/07/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/07/23 11/07/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/07/23 11/08/23 ND 50.0 1 11/07/23 11/08/23



		QC S	umm	ary Data					
Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:	2	West Mount #1A 20046-0001 Vatalie Gladden					Reported:
Aitusia IVIVI, 80210					_				11/0/2023 2.2/.141 W
		Volatile O	rganics			Analyst: RKS			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345033-BLK1)							Prepared: 1	1/07/23 Ar	alyzed: 11/08/23
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	7.39		8.00		92.3	70-130			
LCS (2345033-BS1)							Prepared: 1	1/07/23 Ar	alyzed: 11/07/23
Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			
Matrix Spike (2345033-MS1)				Source: E	311047-2	22	Prepared: 1	1/07/23 Ar	alyzed: 11/07/23
Benzene	4.93	0.0250	5.00	ND	98.5	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	61-133			
Toluene	4.93	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			
Matrix Spike Dup (2345033-MSD1)				Source: E	311047-2	22	Prepared: 1	1/07/23 Ar	alyzed: 11/07/23
Benzene	4.89	0.0250	5.00	ND	97.7	54-133	0.817	20	
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	61-133	0.771	20	
Toluene	4.89	0.0250	5.00	ND	97.7	61-130	0.933	20	
o-Xylene	4.88	0.0250	5.00	ND	97.5	63-131	0.811	20	
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131	1.10	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131	1.01	20	
			0.00		05.0	ZO 130			

8.00

7.76

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	44/0/2020 0 0 0 0 4/70 5
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			1.	1/8/2023 2:27:14PN
	Non	halogenated		Analyst: RKS					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345033-BLK1)							Prepared: 1	1/07/23 Ana	alyzed: 11/08/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			
LCS (2345033-BS2)							Prepared: 1	1/07/23 Ana	alyzed: 11/07/23
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			
Matrix Spike (2345033-MS2)				Source:	E311047-	22	Prepared: 1	1/07/23 Ana	alyzed: 11/07/23
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			
Matrix Spike Dup (2345033-MSD2)				Source:	E311047-	22	Prepared: 1	1/07/23 Ana	alyzed: 11/07/23
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130	1.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/8/2023 2:27:14PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				11/8/2023 2:27:14PM
	Nonhal	logenated Or	Analyst: KM						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345034-BLK1)							Prepared: 1	1/07/23 A	nalyzed: 11/07/23
biesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.6		50.0		95.1	50-200			
CS (2345034-BS1)							Prepared: 1	1/07/23 A	nalyzed: 11/07/23
riesel Range Organics (C10-C28)	228	25.0	250		91.3	38-132			
urrogate: n-Nonane	48.3		50.0		96.6	50-200			
Matrix Spike (2345034-MS1)				Source:	E311051-0)5	Prepared: 1	1/07/23 A	nalyzed: 11/07/23
riesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
urrogate: n-Nonane	47.0		50.0		94.0	50-200			
Matrix Spike Dup (2345034-MSD1)				Source:	E311051-0)5	Prepared: 1	1/07/23 A	nalyzed: 11/07/23
tiesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132	8.96	20	



Mack Energy		Project Name: Project Number:		est Mount #1 <i>A</i> 0046-0001	Λ				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden					11/8/2023 2:27:14PM
		Anions	by EPA 3	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345042-BLK1)							Prepared:	11/07/23 A	nalyzed: 11/07/23
Chloride	ND	20.0							
LCS (2345042-BS1)							Prepared:	11/07/23 A	nalyzed: 11/07/23
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2345042-MS1)				Source:	E311051-0)6	Prepared:	11/07/23 A	nalyzed: 11/07/23
Chloride	525	20.0	250	275	100	80-120			
Matrix Spike Dup (2345042-MSD1)				Source: 1	E311051-()6	Prepared:	11/07/23 A	nalyzed: 11/07/23
Chloride	521	20.0	250	275	98.7	80-120	0.759	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/08/23 14:27

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.



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	Dill To				Labi	Jse Or	ols/		-	TAT	EPA Pr	rogram
ent: TYLCK ENEGGY	Bill To Attention: ENERGY STAFFING S	SERVICES	Lab		Lab C			1D	2D 30	O Standard	CWA	SDW
ject: West Mount #1A ject Manager:	Address: 2724 NW COUNTY RD			3110	51	20	Number 046-6	100	~			
ress:	City, State, Zip HOBBS, NM 88			,		Anal	ysis and Meth	od				RCR
/, State, Zip	Phone: 575-393-9048									2 10 16 18	State	
one:	Email: NATALIE@ENERGYSTAFFI	NGLLC.COM	015	015		1				NIMI CO	UT AZ	TXI
ail:	BRITTNEY@ENERGYSTAFF	INGLLC.COM	by 8	by 8	021	10	0.000	N.	×	X X	OI AL	1X
port due by:	856	h	ORO	DRO	8 yd	15 60	ide	20			-	
rime Date Matrix No. of Containers Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	Metals 6010	Chloride 300.0	ЭООБЯ	верос		Remarks	
11/03/12 5 1 5W	1 - 5.65	1						×	1			
1 1 5 0	2 - 5061-	2						1				
Sw	3 - SJ8F	3										
5ω	4 - 5005	4										
	5 - Suri	5										
Sw	6 - 508F	6										
5ω	7 - 5085						The second of th	1				
Sw	8 - SUF	8										
III SW	9 - 506F	9										
	10-564	10						×				
dditional Instructions:				-								
field sampler), attest to the validity and authenticity of this sampl		nislabelling the samp	ole loca	tion,		San	ncles requiring thern ked in ice at an avg	nal preser temp abov	vation must ve 0 but less t	be received on ice the day than 6 °C on subsequent o	, they are sam; lays.	pled or n
elinquished by: (Signature) Date Tin		Date		Time	315	Re	eceived on ic		Lab Use	Only		
A	Received by: (Signature)	Date	1-6-2	Time	300			-		T3		
te or time of collection is considered fraud and may be grounds for elinquished by: (Signature) Duan Sol (relegal action. Sampled by: Signature Course	11-6	-13	Time		+			Lab Use	Only	1075.	_



Printed: 11/7/2023 8:40:06AM

Envirotech Analytical Laboratory

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.

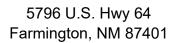
Client:	Mack Energy	Date Received:	11/07/23 08	8:20		Work Order ID:	E311051
Phone:	(575) 390-6397	Date Logged In:	11/06/23 15			Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:		7:00 (1 day TAT)		Logged in By.	Jordan Montano
Dillair.		- Due Duic.	11,00,25 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location man	tch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	_			
5. Were a	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
Camania T	i.e, 15 minute hold time, are not included in this disucssic	on.		1		<u>commun</u>	<u> </u>
	COC indicate standard TAT or Exmedited TAT?		Yes		Time sam	nled not provi	ded on COC per
	COC indicate standard TAT, or Expedited TAT?		108		client.	-p-0-0-1101 pro+1	on 000 pt.
Sample C			Yes		CHCIII.		
	sample cooler received? was cooler received in good condition?						
	-		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample (<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are V	OC 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 n	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal	<u>oel</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected? ollectors name?		Yes	•			
	Preservation		No				
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	reserved:	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	1	icuis.	110				
	se Sample Matrix the sample have more than one phase, i.e., multipha	50°	n. T				
			No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzea?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	-	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab):		
Client In	<u>istruction</u>						
							2

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

Report to:

Natalie Gladden





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





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311055

Job Number: 20046-0001

Received: 11/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/9/23

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: 11/9/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311055

Date Received: 11/8/2023 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/8/2023 8:00:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu.
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/09/23 17:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 11- SURF	E311055-01A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW-12- SURF	E311055-02A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 13- SURF	E311055-03A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 14- SURF	E311055-04A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 15- SURF	E311055-05A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 16 - SURF	E311055-06A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 17- SURF	E311055-07A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 18- SURF	E311055-08A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 19- SURF	E311055-09A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 20- SURF	E311055-10A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 21- SURF	E311055-11A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 22- SURF	E311055-12A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SW 23- SURF	E311055-13A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 24- SURF	E311055-14A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 25- SURF	E311055-15A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 26- SURF	E311055-16A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 27- SURF	E311055-17A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 28- SURF	E311055-18A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 29- SURF	E311055-19A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 30- SURF	E311055-20A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 31- SURF	E311055-21A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 32- SURF	E311055-22A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 33- SURF	E311055-23A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.
SW 34- SURF	E311055-24A	Soil	11/07/23	11/08/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 11- SURF E311055-01

		E311055-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allalyte	Result	Lillit	Dilution	Trepared	Allaryzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		120 %	50-200	11/08/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345063
Chloride	ND	200	10	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW-12- SURF

E311055-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg		Analyst: RKS			Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	ng/kg mg/kg Analyst: RKS		Batch: 2345059		
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg m		Analyst: KM			Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		117 %	50-200	11/08/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345063
Chloride	271	200	10	11/08/23	11/08/23	•



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 13- SURF

E311055-03

		Domontino				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg		Analy	Analyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg mg/kg Analyst: RKS			Batch: 2345059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg mg/kg Analyst: KM		Batch: 2345052			
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		117 %	50-200	11/08/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345063
Chloride	3560	200	10	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 14- SURF

		2011000 0.				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	•	7 mary zect	Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	Batem 25 10009
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		129 %	50-200	11/08/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345063
Chloride	4260	200	10	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 15- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	: RKS		Batch: 2345059
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0500	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
	95.0 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345059
ND	20.0	1	11/08/23	11/08/23	
	91.0 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	Analyst: KM		
ND	25.0	1	11/08/23	11/08/23	
ND	50.0	1	11/08/23	11/08/23	
	112 %	50-200	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: BA		Batch: 2345063
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg MB 0.0250 95.0 % mg/kg mg/kg mg/kg MD 20.0 mg/kg mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 70-130 1 mg/kg mg/kg Analyst ND 20.0 1 mg/kg mg/kg Analyst ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0500 1 11/08/23 ND 0.0250 1 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 ND 25.0 1 11/08/23 ND 50.0 1 11/08/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0500 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 Mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 11/08/23 Mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 11/08/23 ND 25.0 1 11/08/23 11/08/23 ND 50.0 1 11/08/23 11/08/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 16 - SURF

		D am a :-+!:				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS	<u>-</u>	Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		108 %	50-200	11/08/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2345063
Chloride	16000	400	20	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 17- SURF

		D 4'				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		yst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		113 %	50-200	11/08/23	11/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2345063
Chloride	7720	200	10	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 18- SURF

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		89.2 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2345063
Chloride	ND	20.0	1	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 19- SURF

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		101 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2345063
Chloride	ND	40.0	2	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 20- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	:: RKS		Batch: 2345059
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0500	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
	96.8 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analyst	:: RKS		Batch: 2345059
ND	20.0	1	11/08/23	11/08/23	
	89.3 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analyst	:: KM		Batch: 2345052
ND	25.0	1	11/08/23	11/09/23	
ND	50.0	1	11/08/23	11/09/23	
	101 %	50-200	11/08/23	11/09/23	
	101 /0	00 200			
mg/kg	mg/kg	Analyst	:: BA		Batch: 2345063
	mg/kg ND Mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 89.3 % mg/kg mg/kg mg/kg ND 25.0	mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 mg/kg mg/kg Analyst ND 20.0 1 89.3 % 70-130 70-130 mg/kg mg/kg Analyst ND 25.0 1	mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0500 1 11/08/23 ND 0.0250 1 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 89.3 % 70-130 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23	mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 11/08/23 ND 0.0500 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 11/08/23 89.3 % 70-130 11/08/23 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 11/09/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 21- SURF

		Domontino				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		108 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2345063
Chloride	29.9	20.0	1	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 22- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		107 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2345063
· · · · · · · · · · · · · · · · · · ·	50.9	20.0		11/08/23	11/08/23	.,,



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 23- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: RKS		Batch: 2345059
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0500	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
	96.0 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	st: RKS		Batch: 2345059
ND	20.0	1	11/08/23	11/08/23	
	92.2 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2345052
ND	25.0	1	11/08/23	11/09/23	
ND	50.0	1	11/08/23	11/09/23	
	100 %	50-200	11/08/23	11/09/23	
mg/kg	mg/kg	Analys	st: BA		Batch: 2345063
	υ υ				
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 mg/kg mg/kg ND 20.0 92.2 % mg/kg ND 25.0 ND 50.0 100 %	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.050 1 MD 20.0 1 Mg/kg mg/kg Analys Mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 100 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0500 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 ND 50.0 1 11/08/23 100 % 50-200 11/108/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0500 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 MD 0.0250 1 11/08/23 11/08/23 Mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 11/09/23 ND 50.0 1 11/08/23 11/09/23 ND 50.0 1 11/08/23 11/09/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 24- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: RKS		Batch: 2345059
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0500	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
	96.5 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	st: RKS		Batch: 2345059
ND	20.0	1	11/08/23	11/08/23	
	90.7 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	st: KM		Batch: 2345052
ND	25.0	1	11/08/23	11/09/23	
ND	50.0	1	11/08/23	11/09/23	
	104 %	50-200	11/08/23	11/09/23	
mg/kg	mg/kg	Analys	st: BA		Batch: 2345063
	mg/kg ND ND ND ND ND ND ND ND ND N	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 90.7 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 96.5 % 70-130 70-130 mg/kg mg/kg Analys ND 20.0 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0500 1 11/08/23 ND 0.0250 1 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 ND 25.0 1 11/08/23 ND 50.0 1 11/08/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0500 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 11/09/23 ND 50.0 1 11/08/23 11/09/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 25- SURF

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		104 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2345063
	66.3	20.0		11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 26- SURF

		2011000 10				
Anglyto	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	Frepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	43.7	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		98.6 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345063
Chloride	12600	400	20	11/08/23	11/08/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 27- SURF

		Damati				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		yst: RKS	Miningzed	Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	Batch: 2543037
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		99.2 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2345063
Chloride	6950	400	20	11/08/23	11/09/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 28- SURF

		D '				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyce				•	Allalyzed	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		110 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2345063
Chloride	2720	400	20	11/08/23	11/09/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 29- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345059
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0500	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
	96.2 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345059
ND	20.0	1	11/08/23	11/08/23	
	88.5 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2345052
ND	25.0	1	11/08/23	11/09/23	
ND	50.0	1	11/08/23	11/09/23	
	106 %	50-200	11/08/23	11/09/23	
mg/kg	mg/kg	Analys	t: BA		Batch: 2345063
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg MB 0.0250 88.5 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.0 1 88.5 % 70-130 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0500 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 ND 50.0 1 11/08/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0500 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 11/09/23 ND 50.0 1 11/08/23 11/09/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 30- SURF

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2345059
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2345059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2345052
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		104 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2345063
Chloride	3560	40.0	2	11/08/23	11/09/23	•



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 31- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345054
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345054
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		95.4 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345062
Chloride	7600	400	20	11/08/23	11/08/23	·



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 32- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345054
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345054
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		101 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345062



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 33- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345054
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
ND	0.0500	1	11/08/23	11/08/23	
ND	0.0250	1	11/08/23	11/08/23	
	94.2 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345054
ND	20.0	1	11/08/23	11/08/23	
	90.7 %	70-130	11/08/23	11/08/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2345053
ND	25.0	1	11/08/23	11/09/23	
ND	50.0	1	11/08/23	11/09/23	
		50.300	11/08/23	11/09/23	
	101 %	50-200	11/06/23	11/09/23	
mg/kg	101 % mg/kg	30-200 Analys		11/09/23	Batch: 2345062
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 94.2 % mg/kg MD 20.0 90.7 % mg/kg mg/kg mg/kg ND 25.0	Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 94.2 % 70-130 mg/kg mg/kg Analys ND 20.0 1 mg/kg mg/kg Analys ND 25.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0500 1 11/08/23 ND 0.0250 1 11/08/23 ND 0.0250 1 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0500 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 ND 0.0250 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/08/23 11/08/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/08/23 11/09/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

SW 34- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2345054
Benzene	ND	0.0250	1	11/08/23	11/08/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/08/23	
Toluene	ND	0.0250	1	11/08/23	11/08/23	
o-Xylene	ND	0.0250	1	11/08/23	11/08/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/08/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/08/23	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345054
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	11/08/23	11/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		103 %	50-200	11/08/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2345062
Chloride	2210	200	10	11/08/23	11/09/23	



		QC 50	A 1 1 1 1 1 1 1 6	ary Data					
Mack Energy		Project Name:	W	Vest Mount #1A	_				Reported:
7 W. Compress Road		Project Number:	20	0046-0001					
Artesia NM, 88210		Project Manager:	N	atalie Gladden					11/9/2023 5:04:36PM
	Volatile Organics by			by EPA 8021				Analyst: RKS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345054-BLK1)							Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Benzene	ND	0.0250					-		<u> </u>
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	7.60		8.00		95.0	70-130			
LCS (2345054-BS1)							Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Benzene	4.71	0.0250	5.00		94.2	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.4	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.1	70-130			
p,m-Xylene	9.56	0.0500	10.0		95.6	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			
Matrix Spike (2345054-MS1)				Source: E	311052-0	04	Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Benzene	4.89	0.0250	5.00	ND	97.7	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133			
Toluene	4.98	0.0250	5.00	ND	99.5	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			
Matrix Spike Dup (2345054-MSD1)				Source: E	311052-0	04	Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Benzene	4.67	0.0250	5.00	ND	93.4	54-133	4.52	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	4.17	20	
Toluene	4.77	0.0250	5.00	ND	95.3	61-130	4.29	20	
o-Xylene	4.76	0.0250	5.00	ND	95.1	63-131	4.15	20	
	0.50	0.0500	10.0	A III				20	
p,m-Xylene Total Xylenes	9.58 14.3	0.0500 0.0250	15.0	ND ND	95.8 95.6	63-131 63-131	4.11 4.12	20 20	

8.00

7.58

70-130



Surrogate: 4-Bromochlorobenzene-PID

		QC S	umma	iry Data	a				
Mack Energy 7 W. Compress Road		Project Name: Project Number:	20	est Mount #1. 0046-0001					Reported:
Artesia NM, 88210		Project Manager:	Na	atalie Gladder	1				11/9/2023 5:04:36PM
		oy EPA 802	21B		Analyst: RKS				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345059-BLK1)							Prepared: 1	1/08/23 A	analyzed: 11/08/23
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			
LCS (2345059-BS1)							Prepared: 1	1/08/23 A	analyzed: 11/08/23
Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
o,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			
Matrix Spike (2345059-MS1)				Source:	E311055-0	01	Prepared: 1	1/08/23 A	analyzed: 11/08/23
Benzene	4.68	0.0250	5.00	ND	93.6	54-133			
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133			
Coluene	4.74	0.0250	5.00	ND	94.9	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.9	63-131			
o,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			
Matrix Spike Dup (2345059-MSD1)				Source:	E311055-0	01	Prepared: 1	1/08/23 A	analyzed: 11/08/23
Benzene	4.96	0.0250	5.00	ND	99.2	54-133	5.80	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	6.01	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	5.81	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	6.09	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	6.07	20	
Tr. + 1 37 1	15.2	0.0050	15.0	ND	102	(2.121	(00	20	



15.3

7.66

0.0250

15.0

8.00

ND

102

95.8

63-131

70-130

6.08

20

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	n				11/9/2023 5:04:36PM		
	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		
Blank (2345054-BLK1)							Prepared: 1	1/08/23 Aı	nalyzed: 11/08/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130					
LCS (2345054-BS2)							Prepared: 1	1/08/23 Aı	nalyzed: 11/08/23		
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130					
Matrix Spike (2345054-MS2)				Source:	E311052-0	04	Prepared: 1	1/08/23 Aı	nalyzed: 11/08/23		
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.8	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130					
Matrix Spike Dup (2345054-MSD2)				Source:	E311052-0	04	Prepared: 1	1/08/23 Aı	nalyzed: 11/08/23		
Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	81.0	70-130	6.94	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130					



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

Artesia NM, 88210		Project Manager	r: Na	italie Gladder	1				11/9/2023 5:04:36PM
	Non	halogenated		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
Blank (2345059-BLK1)							Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			
LCS (2345059-BS2)							Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike (2345059-MS2)				Source:	E311055-0)1	Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			
Matrix Spike Dup (2345059-MSD2)				Source:	E311055-0)1	Prepared: 1	1/08/23 A	nalyzed: 11/08/23
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130	5.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

Artesia NM, 88210		Project Manager	r: Na	ıtalie Gladder	1				11/9/2023 5:04:36PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345052-BLK1)							Prepared: 1	1/08/23 Ar	nalyzed: 11/08/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	61.0		50.0		122	50-200			
LCS (2345052-BS1)							Prepared: 1	1/08/23 Ar	nalyzed: 11/08/23
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
urrogate: n-Nonane	60.8		50.0		122	50-200			
Matrix Spike (2345052-MS1)				Source:	E311055-0	05	Prepared: 1	1/08/23 Ar	nalyzed: 11/08/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132			
urrogate: n-Nonane	55.9		50.0		112	50-200			
Matrix Spike Dup (2345052-MSD1)				Source:	E311055-0	05	Prepared: 1	1/08/23 Ar	nalyzed: 11/08/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.56	20	
urrogate: n-Nonane	58.5		50.0		117	50-200			



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1				11/9/2023 5:04:36PN
	Nonhal	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345053-BLK1)							Prepared: 1	1/08/23 A	analyzed: 11/08/23
iesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.6		50.0		99.2	50-200			
CS (2345053-BS1)							Prepared: 1	1/08/23 A	analyzed: 11/08/23
iesel Range Organics (C10-C28)	229	25.0	250		91.5	38-132			
urrogate: n-Nonane	47.3		50.0		94.7	50-200			
Aatrix Spike (2345053-MS1)				Source:	E311054-0	07	Prepared: 1	1/08/23 A	analyzed: 11/08/23
iesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
urrogate: n-Nonane	44.9		50.0		89.8	50-200			
Matrix Spike Dup (2345053-MSD1)				Source:	E311054-0	07	Prepared: 1	1/08/23 A	analyzed: 11/08/23
iesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	0.577	20	
urrogate: n-Nonane	52.2		50.0		104	50-200			



Mack Energy 7 W. Compress Road	Project Name: Project Number:	West Mount #1A 20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 5:04:36PM

		Anions	by EPA 3	00.0/9056 <i>A</i>	\				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
Blank (2345062-BLK1)							Prepared: 1	1/08/23 Anal	yzed: 11/08/23
Chloride	ND	20.0							
LCS (2345062-BS1)							Prepared: 1	1/08/23 Anal	yzed: 11/08/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2345062-MS1)				Source:	E311054-0	03	Prepared: 1	1/08/23 Anal	yzed: 11/08/23
Chloride	37100	2000	250	40400	NR	80-120			M4
Matrix Spike Dup (2345062-MSD1)				Source:	E311054-0	03	Prepared: 1	1/08/23 Anal	yzed: 11/08/23
Chloride	36700	2000	250	40400	NR	80-120	0.845	20	M4



Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount #1A					Reported:
Artesia NM, 88210		Project Manager:		atalie Gladden					11/9/2023 5:04:36PM
		Anions	by EPA 3	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345063-BLK1)							Prepared:	11/08/23 A	Analyzed: 11/08/23
Chloride	ND	20.0							
LCS (2345063-BS1)							Prepared:	11/08/23 A	Analyzed: 11/08/23
Chloride	245	20.0	250		97.9	90-110			
Matrix Spike (2345063-MS1)				Source: E	311055-0)4	Prepared:	11/08/23 A	Analyzed: 11/08/23
Chloride	5110	200	250	4260	337	80-120			M4
Matrix Spike Dup (2345063-MSD1)				Source: E	311055-0)4	Prepared:	11/08/23 A	Analyzed: 11/08/23
Chloride	4490	200	250	4260	88.4	80-120	12.9	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

Γ	Mack Energy	Project Name:	West Mount #1A	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/09/23 17:04

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



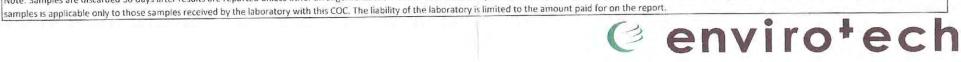
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State, Zip			_		Phone: 575-393-9048 Email: NATALIE@ENERGYSTAR	FINGLLC.COM	15	15										State	1 1
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ne Date oled Sampled	Matrix	No of Containers	Sample ID			Lab Number	DRO/ORO	GRO/DRO by 8015	ВТЕХ БУ 8021	VOC by 8260	Meta	Chlor	1	верос	BGDOC			Remarks	
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inquished by: (S			Date	Time	Aceived by: (Signature)	Date	1/23	Tin	ne	0			mp°C_4	1					



Bill To Attention: ENERGY STAFFING Address: 2724 NW COUNTY R City, State, Zip HOBBS, NM 8 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFF BRITTNEY@ENERGYSTAFF	D 38240	Lab W	VO#	Lai	b Use			10.7		-			-	1000 1 100 5	
Manager: s: ate, Zip Address: 2724 NW COUNTY R City, State, Zip HOBBS, NM 8 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFF BRITTNEY@ENERGYSTAF	D 38240	E 2	21100		200	יו ססו	lumber		1D	2D]	3D	Standa	rd	CWA	SDWA
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Date Matrix Sample ID Sample ID	Number	DRC	GRC	ВТЕ	Š	Me	5	1	98	BGE	-	-			
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ional Instructions:															
sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally	mislabelling the samp	ole locati	ion,			Samp	les requirir ed in ice at :	g thermal an avg tem	preserv ip above	ation m	ust be rece ess than 6	eived on ice t °C on subsec	the day went da	they are sam iys.	ipled or receive
time of collection is considered fraud and may be grounds for legal action. Sampled by: Signature) Date Time Received by: (Signature)	1 Date		Time			-			1	Lab U	se Onl	у			
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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

Received by OCD: 5/16/2025 12:00:30 AM



Printed: 11/8/2023 8:49:11AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

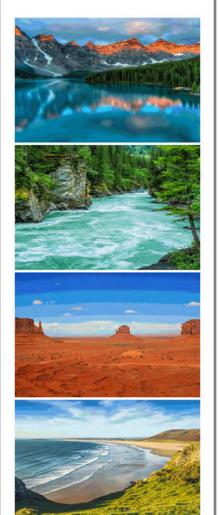
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	11/08/23 08	3:00		Work Order ID:	E311055
Phone:	(575) 390-6397	Date Logged In:	11/07/23 14			Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/09/23 17	7:00 (1 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	_			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)						
	COC indicate standard TAT, or Expedited TAT?		Yes		Time sam	pled not provi	ded on COC per
Sample C					client.		
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	were custody/security seals intact?		NA				
•	e sample received on ice? If yes, the recorded temp is 4°C,	i					
	Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4°C	<u> </u>				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info	rmation:	Yes				
	ample ID? ate/Time Collected?		Yes				
	ollectors name?		No				
Sample P	reservation_		110				
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multiphase	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
			1471				
	act Laboratory	9	Ma				
	amples required to get sent to a subcontract laborator	•	No NA	7.1	31/4		
	subcontract laboratory specified by the client and if	so who?	NA S	Subcontract Lab): N/A		
Client In	<u>istruction</u>						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311065

Job Number: 20046-0001

Received: 11/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/10/23

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: 11/10/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311065

Date Received: 11/9/2023 8:45:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2023 8:45:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Cell: 775-287-1762

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/23 16:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 35- SURF	E311065-01A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 36- SURF	E311065-02A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 37- SURF	E311065-03A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 38- SURF	E311065-04A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 39- SURF	E311065-05A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 40- SURF	E311065-06A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 41- SURF	E311065-07A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 42- SURF	E311065-08A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 43- SURF	E311065-09A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 44- SURF	E311065-10A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 45- SURF	E311065-11A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 46- SURF	E311065-12A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 47- SURF	E311065-13A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 48- SURF	E311065-14A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 49- SURF	E311065-15A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW-50- SURF	E311065-16A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 35- SURF

		E311003-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.1 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		90.8 %	50-200	11/09/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345086
Chloride	35600	1000	50	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 36- SURF

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		93.4 %	50-200	11/09/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2345086
				11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 37- SURF

		2011000 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	•		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		93.5 %	50-200	11/09/23	11/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345086
Chloride	11500	400	20	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 38- SURF

Analyzed 11/10/23 11/10/23 11/10/23 11/10/23 11/10/23	Notes Batch: 2345075
11/10/23 11/10/23 11/10/23 11/10/23 11/10/23	
11/10/23 11/10/23 11/10/23 11/10/23	Batch: 2345075
11/10/23 11/10/23 11/10/23 11/10/23	
11/10/23 11/10/23 11/10/23	
11/10/23 11/10/23	
11/10/23	
11/10/02	
11/10/23	
11/10/23	
	Batch: 2345075
11/10/23	
11/10/23	
	Batch: 2345079
11/09/23	
11/09/23	
11/09/23	
	Batch: 2345086
11/10/23	
-	11/10/23 11/10/23 11/09/23 11/09/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 39- SURF

		D on outin o				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS	<u> </u>	Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		93.1 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2345086
Chloride	1950	40.0	2	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 40- SURF

	Reporting				
Result	Limit	Diluti	ion Prepared	Analyzed	Notes
mg/kg	mg/kg	A	analyst: RKS		Batch: 2345075
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0500	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
	90.1 %	70-130	11/09/23	11/10/23	
mg/kg	mg/kg	A	analyst: RKS		Batch: 2345075
ND	20.0	1	11/09/23	11/10/23	
	92.5 %	70-130	11/09/23	11/10/23	
mg/kg	mg/kg	A	analyst: KM		Batch: 2345079
ND	25.0	1	11/09/23	11/10/23	
ND	50.0	1	11/09/23	11/10/23	
	90.6 %	50-200	11/09/23	11/10/23	
mg/kg	mg/kg	A	analyst: BA		Batch: 2345086
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mD 90.1 % mg/kg mg/kg ND 20.0 92.5 % mg/kg ND 25.0 ND 50.0	Result Limit Dilut mg/kg mg/kg A ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 90.1 % 70-130 mg/kg mg/kg A ND 20.0 1 mg/kg mg/kg A ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/09/23 ND 0.0250 1 11/09/23 ND 0.0250 1 11/09/23 ND 0.0500 1 11/09/23 ND 0.0250 1 11/09/23 ND 0.0250 1 11/09/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/09/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/09/23 ND 25.0 1 11/09/23 ND 50.0 1 11/09/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/09/23 11/10/23 ND 0.0250 1 11/09/23 11/10/23 ND 0.0250 1 11/09/23 11/10/23 ND 0.0500 1 11/09/23 11/10/23 ND 0.0250 1 11/09/23 11/10/23 ND 0.0250 1 11/09/23 11/10/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/09/23 11/10/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/09/23 11/10/23 ND 25.0 1 11/09/23 11/10/23 ND 50.0 1 11/09/23 11/10/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 41- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	41.7	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		94.4 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345086
Chloride	2080	20.0	1	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 42- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		94.6 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345086
Chloride	575	20.0	1	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 43- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	88.5	25.0	1	11/09/23	11/10/23	T17
Oil Range Organics (C28-C36)	136	50.0	1	11/09/23	11/10/23	T17
Surrogate: n-Nonane		89.1 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2345086
Chloride	21700	1000	50	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 44- SURF

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		90.5 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2345086
	•	20.0		11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 45- SURF

		Domontino				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		91.6 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: BA		Batch: 2345086
Chloride	ND	40.0	2	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 46- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		96.1 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2345086
Chloride	256	200	10	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 47- SURF

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345075
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
ND	0.0500	1	11/09/23	11/10/23	
ND	0.0250	1	11/09/23	11/10/23	
	89.1 %	70-130	11/09/23	11/10/23	
mg/kg	mg/kg	Analys	t: RKS		Batch: 2345075
ND	20.0	1	11/09/23	11/10/23	
	92.4 %	70-130	11/09/23	11/10/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2345079
ND	25.0	1	11/09/23	11/10/23	
ND	50.0	1	11/09/23	11/10/23	
	92.9 %	50-200	11/09/23	11/10/23	
mg/kg	mg/kg	Analys	t: BA		Batch: 2345086
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 89.1 % mg/kg ND 20.0 92.4 % mg/kg ND 25.0	mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 89.1 % 70-130 mg/kg mg/kg Analys ND 20.0 1 mg/kg mg/kg Analys ND 25.0 1	mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/09/23 ND 0.0250 1 11/09/23 ND 0.0250 1 11/09/23 ND 0.0250 1 11/09/23 ND 0.0500 1 11/09/23 ND 0.0250 1 11/09/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/09/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/09/23	mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/09/23 11/10/23 ND 0.0500 1 11/09/23 11/10/23 ND 0.0250 1 11/09/23 11/10/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/09/23 11/10/23 mg/kg mg/kg Analyst: KK ND 25.0 1 11/09/23 11/10/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 48- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		94.7 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2345086
-	ND	200	10	11/09/23	11/10/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW 49- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		88.6 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		91.7 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2345086
Amons by ETA 500.0/7050A						



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

SW-50- SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345075
Benzene	ND	0.0250	1	11/09/23	11/10/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/10/23	
Toluene	ND	0.0250	1	11/09/23	11/10/23	
o-Xylene	ND	0.0250	1	11/09/23	11/10/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/10/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/10/23	
Surrogate: 4-Bromochlorobenzene-PID		89.3 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2345075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	11/09/23	11/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2345079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		94.0 %	50-200	11/09/23	11/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2345086
Chloride	ND	200	10	11/09/23	11/10/23	•



		QC Si	umma	ary Data	l					
Mack Energy		Project Name:	V	Vest Mount #1A					Reported:	
7 W. Compress Road		Project Number:	2	0046-0001						
Artesia NM, 88210	Project Manager:			Vatalie Gladden				11/10/2023 4:44		
		Volatile O	rganics	by EPA 8021	B				Analyst: RKS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2345075-BLK1)							Prepared: 1	1/09/23 A	Analyzed: 11/09/23	
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	7.54		8.00		94.3	70-130				
LCS (2345075-BS1)							Prepared: 1	1/09/23 A	Analyzed: 11/09/23	
Benzene	4.13	0.0250	5.00		82.6	70-130				
Ethylbenzene	4.26	0.0250	5.00		85.2	70-130				
Toluene	4.34	0.0250	5.00		86.8	70-130				
o-Xylene	4.37	0.0250	5.00		87.4	70-130				
p,m-Xylene	8.82	0.0500	10.0		88.2	70-130				
Total Xylenes	13.2	0.0250	15.0		87.9	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130				
Matrix Spike (2345075-MS1)				Source: I	E311065-	04	Prepared: 1	1/09/23 A	Analyzed: 11/10/23	
Benzene	5.02	0.0250	5.00	ND	100	54-133				
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133				
Toluene	5.02	0.0250	5.00	ND	100	61-130				
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131				
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131				
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131				
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130				
Matrix Spike Dup (2345075-MSD1)				Source: I	E311065-	04	Prepared: 1	1/09/23 A	Analyzed: 11/10/23	
Benzene	4.98	0.0250	5.00	ND	99.6	54-133	0.793	20		
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133	0.514	20		
Toluene	4.99	0.0250	5.00	ND	99.8	61-130	0.657	20		
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	0.439	20		
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	0.560	20		
Total Xylenes	14.9	0.0250	15.0	ND	99.2	63-131	0.520	20		

8.00

8.04

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road Artesia NM, 88210	Project Number: Project Manager:	20046-0001 Natalie Gladden	11/10/2023 4:44:10PM
1110010 11111, 00210	110juut Manageri	Transfer Character	

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				11/10/2023 4:44:10PN
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit	
Blank (2345075-BLK1)							Prepared: 1	11/09/23	Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
LCS (2345075-BS2)							Prepared:	11/09/23	Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			
Matrix Spike (2345075-MS2)				Source:	E311065-0	04	Prepared:	11/09/23	Analyzed: 11/10/23
Gasoline Range Organics (C6-C10)	37.5	20.0	50.0	ND	74.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			
Matrix Spike Dup (2345075-MSD2)				Source:	E311065-0	04	Prepared:	11/09/23	Analyzed: 11/10/23
Gasoline Range Organics (C6-C10)	37.3	20.0	50.0	ND	74.6	70-130	0.461	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 4:44:10PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	n				11/10/2023 4:44:10PM
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345079-BLK1)							Prepared: 1	1/09/23 A	nalyzed: 11/09/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.3		50.0		101	50-200			
LCS (2345079-BS1)							Prepared: 1	1/09/23 A	nalyzed: 11/09/23
Diesel Range Organics (C10-C28)	238	25.0	250		95.1	38-132			
Surrogate: n-Nonane	45.5		50.0		91.1	50-200			
Matrix Spike (2345079-MS1)				Source:	E311045-	24	Prepared: 1	1/09/23 A	nalyzed: 11/09/23
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132			
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			
Matrix Spike Dup (2345079-MSD1)				Source:	E311045-	24	Prepared: 1	1/09/23 A	nalyzed: 11/09/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	38-132	0.302	20	
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

Mack Energy		Project Name:	W	est Mount #1A	1				Reported:
7 W. Compress Road		Project Number:	20	0046-0001					-
Artesia NM, 88210		Project Manager:	N	atalie Gladden					11/10/2023 4:44:10PM
		Anions	by EPA 3	300.0/9056A	<u>.</u>				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2345086-BLK1)							Prepared:	11/09/23	Analyzed: 11/10/23
Chloride	ND	20.0							
LCS (2345086-BS1)							Prepared:	11/09/23	Analyzed: 11/10/23
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2345086-MS1)				Source: 1	E 311065 -1	2	Prepared:	11/09/23	Analyzed: 11/10/23
Chloride	480	200	250	256	89.5	80-120			
Matrix Spike Dup (2345086-MSD1)				Source: 1	E 311065 -1	2	Prepared:	11/09/23	Analyzed: 11/10/23
Chloride	490	200	250	256	93.7	80-120	2.15	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/23 16:44

T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.

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.



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Client: N	neck 1	ine 69	1			Bill To						se On	-		-	1	IA			Ogram
Project:	west.	Mount	FIA			Attention: ENERGY STAFFING	G SERVICES	Lab	WO	# _			Job Number 20046-000					Standard	CWA	SDWA
	/lanager:					Address: 2724 NW COUNTY I	RD	E	3110	3ak)					2				DCDA
Address:					Mary -	City, State, Zip HOBBS, NM	88240					Analy	ysis a	nd Metho	d	-		477		RCRA
City, Stat					2.17	Phone: 575-393-9048														
Phone:						Email: NATALIE@ENERGYSTAF	FINGLLC.COM	115	315										State	
Email:						BRITTNEY@ENERGYSTA		y 80	y 80	Ħ	0	0	0.0		N				UT AZ	TX
Report d	ne pv.				0	DKITTI AT GARAGE		00	30 b	8021	826	601	e 30			×		1		
Time	Date		No of				Lab	DRO/ORO by 8015	GRO/DRO by 8015	x by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	000			Remarks	
Sampled	Sampled	Matrix	Containers	Sample ID			Number	DRC	GRC	BTEX	00	Me	5		BG	BGDG				
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date or tim	ne of collectio	n is consider	ed fraud and	may be ground	ds for legal	ichon:			T.a.			-								
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Sample M	atrix: S - Soil,	Sd - Solid, Se	- Sludge, A -	Aqueous, O - C	orner	ess other arrangements are made. Ha	azardous samoles v	ill be r	eturn	ed to	client	or disc	oosed	of at the cl	ient ex	pense	. The r	eport for the ar	alysis of the	above
Note: Sai	mples are di	scarded 30	days after	results are rep	the labora	ess other arrangements are made. The lory with this COC. The liability of the l	laboratory is limiter	to the	amo	unt pa	id for	on the	e repo	rt.		9.40.0				
samples	is applicable	only to the	ose samples	received by t	trie labora	tory with this coc. The hability of the i	ione in the state of			7.5	10000			-			-			100



Received by OCD: 5/16/2025 12:00:30 AM

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

Printed: 11/9/2023 10:48:54AM

Envirotech Analytical Laboratory

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:	11/09/23 08	:45		Work Order ID:	E311065
Phone:	(575) 390-6397	Date Logged In:	11/08/23 16	:18		Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/10/23 17	:00 (1 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	currer. <u>c</u>	<u> </u>		
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic					Comments	s/Resolution
	<u>urn Around Time (TAT)</u>				Time a come	نبدوسم عموم الموام	dad an COC man
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		_	pied not provi	ded on COC per
Sample C					client.		
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, <u> </u>	temperature: 4 (<u>~</u>				
Sample C			NT.				
	queous VOC samples present?		No NA				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?						
	trip blank (TB) included for VOC analyses?	•	NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	iers conected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
	act Laboratory		- 11-2				
	act Laboratory Imples required to get sent to a subcontract laborator	m r O	No				
	subcontract laboratory specified by the client and if	•		Subcontract Lab	NI/A		
		so who:	INA S	subcontract Lab); N/A		
Client In	<u>struction</u>						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311208

Job Number: 20046-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/29/23

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: 11/29/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311208

Date Received: 11/28/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative

Office: 505-421-LABS(5227)

Cell: 505-320-4759

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Sample Summary

Mack Energy	Project Name:	Project Name: West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 16:10

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SP 1-6'	E311208-01A Soil	11/21/23	11/28/23	Glass Jar, 2 oz.
SP 2-10'	E311208-02A Soil	11/21/23	11/28/23	Glass Jar, 2 oz.
SP 3-10'	E311208-03A Soil	11/21/23	11/28/23	Glass Jar, 2 oz.
SP 4-12'	E311208-04A Soil	11/21/23	11/28/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:10:13PM

SP 1-6' E311208-01

		E311200-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
o,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Analyst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		82.5 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2348046
Chloride	ND	200	10	11/28/23	11/29/23	



Analyte

Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:10:13PM

SP 2-10' E311208-02

	Reporting					
Result	Limit	Dilution	Prepared	Analyzed	Notes	
mg/kg	mg/kg	Analyst	RAS		Batch: 2348038	
ND	0.0250	1	11/28/23	11/28/23		
ND	0.0250	1	11/28/23	11/28/23		

11/28/23

10

11/29/23

Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2348038
Benzene	ND	0.0250	1	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS			Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/28/23	11/28/23	
Surrogate: n-Nonane		84.6 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2348046

200

ND

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:10:13PM

SP 3-10'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: RAS		Batch: 2348038
ND	0.0250	1	11/28/23	11/28/23	
ND	0.0250	1	11/28/23	11/28/23	
ND	0.0250	1	11/28/23	11/28/23	
ND	0.0250	1	11/28/23	11/28/23	
ND	0.0500	1	11/28/23	11/28/23	
ND	0.0250	1	11/28/23	11/28/23	
	97.4 %	70-130	11/28/23	11/28/23	
mg/kg	mg/kg	Analys	st: RAS		Batch: 2348038
ND	20.0	1	11/28/23	11/28/23	
	91.0 %	70-130	11/28/23	11/28/23	
mg/kg	mg/kg	Analys	st: JL		Batch: 2348044
ND	25.0	1	11/28/23	11/28/23	
ND	50.0	1	11/28/23	11/28/23	
	82.9 %	50-200	11/28/23	11/28/23	
mg/kg	mg/kg	Analys	st: BA		Batch: 2348046
0 0					
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 97.4 % mg/kg MD 20.0 91.0 % mg/kg ND 25.0 ND 50.0 82.9 %	mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.4 % 70-130 mg/kg mg/kg Analys ND 20.0 1 91.0 % 70-130 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 82.9 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0500 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/28/23 mg/kg mg/kg Analyst: JL ND 25.0 1 11/28/23 ND 25.0 1 11/28/23 ND 50.0 1 11/28/23 82.9 % 50-200 11/1/28/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS Analyst: RAS ND 0.0250 1 11/28/23 11/28/23 ND 0.0250 1 11/28/23 11/28/23 ND 0.0250 1 11/28/23 11/28/23 ND 0.0500 1 11/28/23 11/28/23 ND 0.0250 1 11/28/23 11/28/23 ND 0.0250 1 11/28/23 11/28/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/28/23 11/28/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/28/23 11/28/23 mg/kg mg/kg Analyst: JL ND 25.0 1 11/28/23 11/28/23 ND 50.0 1 11/28/23 11/28/23 ND 50.0 1 11/28/23 11/28/23 82.9 %

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:10:13PM

SP 4-12'

E311208-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Analyst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		90.3 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348046
	ND	200	10	11/28/23	11/29/23	



		QC S	umm	ary Data					
Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:	2	Vest Mount #1A 20046-0001 Vatalie Gladden					Reported: 11/29/2023 4:10:13PM
Aitusia WW, 80210									11/29/2023 4.10.131 141
		Volatile O	rganics	by EPA 8021	В				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348038-BLK1)							Prepared: 1	1/28/23 A	nalyzed: 11/28/23
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	7.92		8.00		99.0	70-130			
LCS (2348038-BS1)							Prepared: 1	1/28/23 A	nalyzed: 11/28/23
Benzene	5.56	0.0250	5.00		111	70-130			
Ethylbenzene	5.46	0.0250	5.00		109	70-130			
Toluene	5.53	0.0250	5.00		111	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			
Matrix Spike (2348038-MS1)				Source: E	311208-0)3	Prepared: 1	1/28/23 A	nalyzed: 11/28/23
Benzene	5.41	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133			
Toluene	5.38	0.0250	5.00	ND	108	61-130			
o-Xylene	5.34	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			
Matrix Spike Dup (2348038-MSD1)				Source: E	311208-0)3	Prepared: 1	1/28/23 A	nalyzed: 11/28/23
Benzene	5.15	0.0250	5.00	ND	103	54-133	5.02	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	4.82	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	5.09	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	5.11	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	4.72	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	4.85	20	
			0.00		05.5	ZO 120			



70-130

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy 7 W. Compress Road	Project Name: Project Number:	West Mount #1A 20046-0001	Reported:
Artesia NM, 88210	Project Number: Project Manager:	Natalie Gladden	11/29/2023 4:10:13PM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	n				11/29/2023 4:10:13PI
	Nor	nhalogenated	Organics l	by EPA 80	15D - G	RO			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
Blank (2348038-BLK1)							Prepared: 1	11/28/23	Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			
LCS (2348038-BS2)							Prepared:	11/28/23	Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			
Matrix Spike (2348038-MS2)				Source:	E311208-	03	Prepared:	11/28/23	Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			
Matrix Spike Dup (2348038-MSD2)				Source:	E311208-	03	Prepared:	11/28/23	Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.766	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:10:13PM

Artesia NM, 88210		Project Manager	r: N	atalie Gladden					11/29/2023 4:10:13PM
	Nonha	logenated Or	ganics by	EPA 8015D	- DRO	ORO/			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348044-BLK1)							Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			
LCS (2348044-BS1)							Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	247	25.0	250		98.7	38-132			
Surrogate: n-Nonane	49.9		50.0		99.9	50-200			
Matrix Spike (2348044-MS1)				Source: 1	E 311208- ()1	Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			
Matrix Spike Dup (2348044-MSD1)				Source: 1	E 311208- ()1	Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.4	38-132	0.204	20	
Surrogate: n-Nonane	48.5		50.0		97.0	50-200			



Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:	20	Vest Mount #1A 1046-0001 atalie Gladden					Reported: 11/29/2023 4:10:13PM	М
		Anions	by EPA 3	300.0/9056A					Analyst: BA	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPE Limi %		
Blank (2348046-BLK1)							Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	ND	20.0								
LCS (2348046-BS1)							Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	251	20.0	250		100	90-110				
Matrix Spike (2348046-MS1)				Source: E	311157-0	13	Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	920	20.0	250	632	115	80-120				
Matrix Spike Dup (2348046-MSD1)				Source: E	2311157-0	13	Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	892	20.0	250	632	104	80-120	3.12	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 16:10

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.



1

	formation											istody														FDA D	
ient: A	Mack E	ncesy							Bill	То				3			e On				2 13		TAT	tanda	rd	CWA	SDW
	West 1	LOUNT	#1A							AFFING SE	RVICE	S	Lab)	WO#	200	,	Job I	lumi	oer o		D 2	-	D S	Lanua	Iu	CVVA	3000
	Manager:				Lan	Ad	dress:	2724	NW CO	UNTY RD	10		Es	511	205				0-0		- 12			San Par	45-54	-	RCR.
ddress:					En					BS, NM 8824	10	-	-				Analy	sis ar	d Met	nou	-		T				11.01.
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Time ampled	Date Sampled	Matrix	No of Containers	Sample ID							200	ımber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	-	-	BGDOC	верос	-	+=		Remarks	
	11/21/23	5	1	150		- (0					1								1	X	1		-			
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								ampering	with or int	entionally misla	abelling t	he samp	ole loca	tion,			Sam	des req ed in ice	iring the	rmal pr g temp	eservat above (ion must but less	be receit than 6 °	ved on ice C on subse	the day t quent da	they are sam iys.	pled or re
-	hed by: (Sign	ature)	Dat	e	Time	gai actio	Rei	ceived by	y: (Signati	we) n	D:	ate		Tim	-						12	b Use	Only		41		
elinguis	hed by: (Sign		Dat	ie	Time		Re	ceived b	y: (Signati	ure)	D	ate		Tim	ie		Re	ceive	a on i	ce:	U) 14					
	ule (end	/	(-27-2)	16	30		Andrew	J M	1280		11.2	7.2.	3 Tim	700)	T1				T2		-	<u>T3</u>			
(field san ate or tim elinquish	npler), attest to the of collection hed by: (Sign 50 \^\$	o the validit is consider ature)	red fraud and Dat	may be ground e 121/23	Time	gal actio	n.	ceived by	Sampled by: (Signatu	v: Jul		1-2	2	Tim	315		pack	ed in ice	d on I	g temp	above (but less	than 6 °	C on subse	quent da	they are sam ays.	



Printed: 11/28/2023 9:52:58AM

Envirotech Analytical Laboratory

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:	11/28/23 (0:00	Work Order ID:	E311208
Phone:	(575) 390-6397	Date Logged In:	11/27/23	14:55	Logged In By:	Jordan Montano
Email:		Due Date:	11/29/23	17:00 (1 day TAT)	, , , , , , , , , , , , , , , , , , ,	
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location mate	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>	
4. Was th	ne COC complete, i.e., signatures, dates/times, request	ed analyses?	No	_		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes		<u>Comments</u>	s/Resolution
Sample '	Turn Around Time (TAT)					1.1. 000
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not provi	ded on COC per
Sample (<u>Cooler</u>				client.	
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes		Project manager not pro	vided on COC per
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			vided on eoc per
10. Were	custody/security seals present?		No		client. Natalie Gladden.	
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes		Sample 2 SP 2-8 on CO	C SP 2-10.
	Container	<u></u>	_			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field La		ors corrected.	105			
	e field sample labels filled out with the minimum infor	mation.				
	Sample ID?	mation.	Yes			
	Date/Time Collected?		No			
(Collectors name?		No			
Sample 1	Preservation					
	s the COC or field labels indicate the samples were pre	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lab	o filteration required and/or requested for dissolved me	etals?	No			
Multiph	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multiphase	e?	No			
27. If yes	s, does the COC specify which phase(s) is to be analyze	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laboratory	v?	No			
	a subcontract laboratory specified by the client and if		NA	Subcontract Lab	· NA	
				240001111401 240		
Cilent I	<u>Instruction</u>					
<u> </u>						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311209

Job Number: 20046-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/29/23

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: 11/29/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311209

Date Received: 11/28/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported.
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 16:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 5 -8'	E311209-01A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 6- 6'	E311209-02A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 7- 8'	E311209-03A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 8- 8'	E311209-04A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 9- 6'	E311209-05A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 10- 6'	E311209-06A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 11- 6'	E311209-07A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP 12- 16'	E311209-08A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 5 -8' E311209-01

		E311209-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		102 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2348046
Chloride	ND	200	10	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 6- 6'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		96.4 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2348046
11110115 6 3 22111 0 0 0 0 0 1 2						



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 7- 8'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		98.2 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348046
Chloride	ND	200	10	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 8-8'

E311209-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
лианую	Kesuit	Liillit	Dilution	ricpaicu	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	t: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		93.1 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	t: BA		Batch: 2348046
Allions by ETA 500.0/7050A						



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 9- 6'

E311209-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: 4-Bromochlorobenzene-PID		90.9 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		96.9 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2348046
Chloride	ND	200	10	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 10- 6'

		E311209-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		95.1 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2348046
Chloride	ND	200	10	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 11- 6'

		E311209-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		95.1 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348046
Chloride	ND	200	10	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

SP 12- 16'

E311209-08

Result		Dilution	Prepared	Analyzed	Notes
Result	Limit		•	7 thatyzed	
mg/kg	mg/kg	Analyst	: RAS		Batch: 2348038
ND	0.0250	1	11/28/23	11/29/23	
ND	0.0250	1	11/28/23	11/29/23	
ND	0.0250	1	11/28/23	11/29/23	
ND	0.0250	1	11/28/23	11/29/23	
ND	0.0500	1	11/28/23	11/29/23	
ND	0.0250	1	11/28/23	11/29/23	
	92.9 %	70-130	11/28/23	11/29/23	
		Analyst: RAS			
mg/kg	mg/kg	Analyst	: RAS		Batch: 2348038
mg/kg ND	mg/kg 20.0	Analyst	: RAS 11/28/23	11/29/23	Batch: 2348038
		Analyst 1 70-130		11/29/23 11/29/23	Batch: 2348038
	20.0	1	11/28/23 11/28/23		Batch: 2348038 Batch: 2348043
ND	20.0	70-130	11/28/23 11/28/23		
ND mg/kg	20.0 96.6 % mg/kg	70-130	11/28/23 11/28/23 :: JL	11/29/23	
ND mg/kg ND	20.0 96.6 % mg/kg 25.0	70-130	11/28/23 11/28/23 : JL 11/28/23	11/29/23	
ND mg/kg ND	20.0 96.6 % mg/kg 25.0 50.0	1 70-130 Analyst 1 1	11/28/23 11/28/23 : JL 11/28/23 11/28/23 11/28/23	11/29/23 11/28/23 11/28/23	
	ND ND ND ND ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250	Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0500 1 11/28/23 ND 0.0250 1 11/28/23 ND 0.0250 1 11/28/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/28/23 11/29/23 ND 0.0500 1 11/28/23 11/29/23 ND 0.0250 1 11/28/23 11/29/23 ND 0.0250 1 11/28/23 11/29/23



		QC S	ullilli	пу рац	a				
Mack Energy 7 W. Compress Road		Project Name: Project Number:	20	est Mount #12 0046-0001					Reported:
Artesia NM, 88210		Project Manager:	N	atalie Gladder	1				11/29/2023 4:07:26PM
		Volatile O	rganics l	y EPA 802	1B		Analyst: RAS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348038-BLK1)							Prepared: 1	1/28/23 A	Analyzed: 11/28/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-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 (2348038-BS1)							Prepared: 1	1/28/23 A	Analyzed: 11/28/23
Benzene	5.56	0.0250	5.00		111	70-130			
Ethylbenzene	5.46	0.0250	5.00		109	70-130			
Toluene	5.53	0.0250	5.00		111	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	70-130			
Matrix Spike (2348038-MS1)				Source:	E311208-0	03	Prepared: 1	1/28/23 A	Analyzed: 11/28/23
Benzene	5.41	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133			
Toluene	5.38	0.0250	5.00	ND	108	61-130			
o-Xylene	5.34	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			
Matrix Spike Dup (2348038-MSD1)				Source:	E311208-0	03	Prepared: 1	1/28/23 A	Analyzed: 11/28/23
Benzene	5.15	0.0250	5.00	ND	103	54-133	5.02	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	4.82	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	5.09	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	5.11	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	4.72	20	
Total Villanas	15.4	0.0250	15.0	ND	102	62 121	1 95	20	



15.4

7.80

0.0250

15.0

8.00

ND

103

97.5

63-131

70-130

4.85

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladde	n				11/29/2023 4:07:26PM	
	Nor	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	
Blank (2348038-BLK1)							Prepared: 1	1/28/23 A	nalyzed: 11/28/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130				
LCS (2348038-BS2)							Prepared: 1	1/28/23 A	nalyzed: 11/28/23	
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.5	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130				
Matrix Spike (2348038-MS2)				Source:	E311208-	03	Prepared: 1	1/28/23 A	nalyzed: 11/28/23	
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130				
Matrix Spike Dup (2348038-MSD2)				Source:	E311208-	03	Prepared: 1	1/28/23 A	nalyzed: 11/28/23	
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.766	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130				



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 4:07:26PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1				11/29/2023 4:07:26PN	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: JL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2348043-BLK1)							Prepared: 1	1/28/23	Analyzed: 11/28/23	
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	50.2		50.0		100	50-200				
LCS (2348043-BS1)							Prepared: 1	1/28/23	Analyzed: 11/28/23	
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132				
Surrogate: n-Nonane	54.8		50.0		110	50-200				
Matrix Spike (2348043-MS1)				Source:	E311209-0)5	Prepared: 1	1/28/23	Analyzed: 11/28/23	
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132				
Surrogate: n-Nonane	50.1		50.0		100	50-200				
Matrix Spike Dup (2348043-MSD1)				Source:	E311209-()5	Prepared: 1	1/28/23	Analyzed: 11/28/23	
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.29	20		
Surrogate: n-Nonane	50.3		50.0		101	50-200				



Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount #1A					Reported:	
Artesia NM, 88210		Project Manager:		atalie Gladden					11/29/2023 4:07:26P	M
		Anions l	oy EPA 3	300.0/9056A					Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2348046-BLK1)							Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	ND	20.0								
LCS (2348046-BS1)							Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	251	20.0	250		100	90-110				
Matrix Spike (2348046-MS1)				Source: E	311157-0	3	Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	920	20.0	250	632	115	80-120				
Matrix Spike Dup (2348046-MSD1)				Source: E	311157-0	3	Prepared:	11/28/23	Analyzed: 11/29/23	
Chloride	892	20.0	250	632	104	80-120	3.12	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 16:07

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 240 of 664

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Page	of	1
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ject Inf	ormation							Chair o	Custody														
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(field sam	pler), attest	to the validi	ty and authe	nticity of this s	ample. La	m aware that	tampering with or inten	tionally mislabell	ing the sam	ole loca	tion,			Samp	des reque ed in ice	iring therm at an avg to	al preser emp abov	vation m e 0 but l	ust be re ess than	ceivec on ice 6 °C on subs	e the day equent da	they are same	pled or re
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Printed: 11/28/2023 10:01:12AM

Envirotech Analytical Laboratory

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.

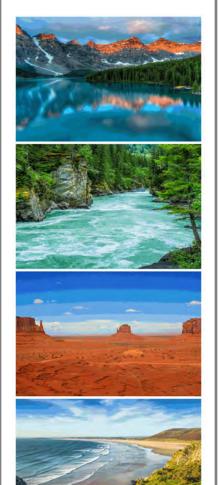
Client:	Mack Energy	Date Received:	11/28/23 07:	:30	Work Order ID:	E311209
Phone:	(575) 390-6397	Date Logged In:	11/27/23 14:		Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/29/23 17:	:00 (1 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courrier</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes	_	<u>Comment</u>	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not provi	ded on COC per
Sample C	<u>Cooler</u>				client.	
	ample cooler received?		Yes			
8. If yes, v	was cooler received in good condition?		Yes		Project manager not list	ed on COC. Natalie
9. Was the	e sample(s) received intact, i.e., not broken?		Yes		Gladden.	
10. Were	custody/security seals present?		No		Giadacii.	
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C		•	_"			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	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 no	on-VOC samples collected in the correct containers'	?	Yes			
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field Lab	<u>oel</u>					
20. Were	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		No	•		
	ollectors name?		No			
	' <u>reservation</u> the COC or field labels indicate the samples were p	recerved?	No			
	imple(s) correctly preserved?	reserved.	NA			
	filteration required and/or requested for dissolved n	netals?	No			
			110			
	se Sample Matrix the sample have more than one phase, i.e., multipha	sa?	No			
	does the COC specify which phase(s) is to be analy		No			
		yzcu.	NA			
	act Laboratory					
	amples required to get sent to a subcontract laborato	-	No			
29. Was a	subcontract laboratory specified by the client and in	t so who?	NA S	Subcontract Lab	: NA	
Client In	<u>istruction</u>					
						()

Date

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

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311211

Job Number: 20046-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/29/23

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: 11/29/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311211

Date Received: 11/28/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 15:53

Client Sample ID	Lab Sample ID Matr	ix Sampled	Received	Container
SP 13-6'	E311211-01A Soil	11/24/23	11/28/23	Glass Jar, 2 oz.
SP 14-6'	E311211-02A Soil	11/24/23	11/28/23	Glass Jar, 2 oz.
SP 15-8'	E311211-03A Soil	11/24/23	11/28/23	Glass Jar, 2 oz.
SP 16-8'	E311211-04A Soil	11/24/23	11/28/23	Glass Jar, 2 oz.
SP 17-8'	E311211-05A Soil	11/24/23	11/28/23	Glass Jar, 2 oz.
SP 18-6'	E311211-06A Soil	11/24/23	11/28/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

SP 13-6' E311211-01

		LUTTIZIT VI					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
					-	Maryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RA	AS		Batch: 2348039
Benzene	ND	0.0250	1		11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1		11/28/23	11/29/23	
Toluene	ND	0.0250	1		11/28/23	11/29/23	
o-Xylene	ND	0.0250	1		11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1		11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1		11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		95.9 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8		111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RA	AS		Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		95.9 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8		111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1		11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/28/23	11/29/23	
Surrogate: n-Nonane		88.5 %	50-200		11/28/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA	A		Batch: 2348047
Chloride	ND	200	10	0	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

SP 14-6'

E311211-02						
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/28/23	11/29/23	
Surrogate: Toluene-d8		112 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/28/23	11/29/23	
Surrogate: Toluene-d8		112 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		86.6 %	50-200	11/28/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2348047

200

10

11/28/23

11/29/23

ND



Chloride

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

SP 15-8'

E311211-03							
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2348039
Benzene	ND	0.0250		1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250		1	11/28/23	11/29/23	
Toluene	ND	0.0250		1	11/28/23	11/29/23	
o-Xylene	ND	0.0250		1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500		1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250		1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		97.8 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8		111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RAS			Batch: 2348039		
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		97.8 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8		111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0		1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/28/23	11/29/23	
Surrogate: n-Nonane		85.2 %	50-200		11/28/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2348047

200

10

11/28/23

11/29/23

ND



Chloride

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

SP 16-8'

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		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		96.4 %	70-130	11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	11/28/23	11/29/23	
Surrogate: Toluene-d8		111 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		96.4 %	70-130	11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	11/28/23	11/29/23	
Surrogate: Toluene-d8		111 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		88.1 %	50-200	11/28/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2348047



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

SP 17-8'

		E311211-05					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analys	t: RAS		Batch: 2348039
Benzene	ND	0.0250		1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250		1	11/28/23	11/29/23	
Toluene	ND	0.0250		1	11/28/23	11/29/23	
o-Xylene	ND	0.0250		1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500		1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250		1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8		110 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analys	t: RAS		Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8		110 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analys	t: JL		Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0		1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/28/23	11/29/23	
Surrogate: n-Nonane		87.5 %	50-200		11/28/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analys	t: BA		Batch: 2348047
Chloride	ND	200	1	10	11/28/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

SP 18-6'

		E311211-06					
		Reporting					
Analyte	Result	Limit	Dilut	tion Pre	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/2	28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/2	28/23	11/29/23	
Toluene	ND	0.0250	1	11/2	28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/2	28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/2	28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/2	28/23	11/29/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	11/2	28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	11/2	28/23	11/29/23	
Surrogate: Toluene-d8		112 %	70-130	11/2	28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/2	28/23	11/29/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	11/2	28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	11/2	28/23	11/29/23	
Surrogate: Toluene-d8		112 %	70-130	11/2	28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2348044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/2	28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/2	28/23	11/29/23	
Surrogate: n-Nonane		85.5 %	50-200	11/2	28/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA			Batch: 2348047
Chloride	ND	200	10	11/2	28/23	11/29/23	



West Mount #1A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 11/29/2023 3:53:23PM **Volatile Organic Compounds by EPA 8260B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2348039-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.488 0.500 97.6 70-130 Surrogate: 1,2-Dichloroethane-d4 0.488 0.500 97.6 70-130 0.500 111 70-130 Surrogate: Toluene-d8 0.554 LCS (2348039-BS1) Prepared: 11/28/23 Analyzed: 11/28/23 2.47 0.0250 2.50 98.7 70-130 Benzene 2.44 2.50 70-130 97.6 Ethylbenzene 0.0250 2.55 0.0250 2.50 102 70-130 2.35 94.1 70-130 0.0250 2.50 o-Xylene 94.3 4.72 5.00 70-130 p,m-Xylene 0.0500 7.07 0.0250 7.50 94.3 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.483 0.500 96.6 70-130 0.500 99.6 70-130 Surrogate: 1,2-Dichloroethane-d4 0.498 70-130 Surrogate: Toluene-d8 0.500 0.549 Matrix Spike (2348039-MS1) Source: E311210-06 Prepared: 11/28/23 Analyzed: 11/29/23 2.47 0.0250 2.50 ND 99.0 48-131 45-135 Ethylbenzene 2.42 0.0250 2.50 ND 96.7 48-130 Toluene 2.50 0.0250 2.50 ND 99.9 2.35 0.0250 2.50 ND 94.0 43-135 o-Xylene 94.7 4.74 5.00 ND 43-135 p,m-Xylene 0.0500 Total Xylenes 7.09 0.0250 7.50 ND 94.5 43-135 Surrogate: Bromofluorobenzene 0.491 0.500 98.1 70-130 0.482 0.500 96.3 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.544 Surrogate: Toluene-d8 Matrix Spike Dup (2348039-MSD1) Source: E311210-06 Prepared: 11/28/23 Analyzed: 11/29/23 2.61 0.0250 2.50 ND 104 48-131 5.33 23 2.58 0.0250 2.50 ND 45-135 6.33 27 Ethylbenzene

ND

ND

ND

ND

108

98.6

99.7

99.3

95.0

99.0

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0500

0.0250

48-130

43-135

43-135

43-135

70-130

70-130

70-130

7.85

4.80

5.12

5.02

24

27

27

27



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.70

2.47

4.98

7.45

0.475

0.495

0.547

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

Mack EnergyProject Name:West Mount #1AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden11/29/20233:53:23PM

Artesia NM, 88210		Project Manager:		atalie Gladden					11/29/2023 3:53:23PM
	Nor	halogenated C	Organics l	by EPA 801:	5D - GI	RO			Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348039-BLK1)							Prepared: 1	1/28/23 A	Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
LCS (2348039-BS2)							Prepared: 1	1/28/23 A	Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.569		0.500		114	70-130			
Matrix Spike (2348039-MS2)				Source: E	311210-0	06	Prepared: 1	1/28/23 A	Analyzed: 11/29/23
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			
Matrix Spike Dup (2348039-MSD2)				Source: E	311210-0	06	Prepared: 1	1/28/23 A	Analyzed: 11/29/23
Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	5.26	20	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			

0.500

0.500

0.471

94.2

113

70-130

70-130



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:53:23PM

Artesia NM, 88210		Project Manage	r: N	atalie Gladden					11/29/2023 3:53:23PM
	Nonha	logenated Or	ganics by	EPA 8015D	- DRO	ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348044-BLK1)							Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.4		50.0		96.9	50-200			
LCS (2348044-BS1)							Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	247	25.0	250		98.7	38-132			
urrogate: n-Nonane	49.9		50.0		99.9	50-200			
Matrix Spike (2348044-MS1)				Source:	E311208-0)1	Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
urrogate: n-Nonane	48.6		50.0		97.2	50-200			
Matrix Spike Dup (2348044-MSD1)				Source:	E311208-0)1	Prepared:	11/28/23	Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.4	38-132	0.204	20	
Gurrogate: n-Nonane	48.5		50.0		97.0	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount #1A					Reported:
Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden					11/29/2023 3:53:23PM
		Anions l	by EPA 3	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348047-BLK1)							Prepared:	11/28/23	Analyzed: 11/28/23
Chloride	ND	20.0							
LCS (2348047-BS1)							Prepared:	11/28/23	Analyzed: 11/29/23
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2348047-MS1)				Source: E	311210-0	13	Prepared:	11/28/23	Analyzed: 11/28/23
Chloride	418	20.0	250	164	102	80-120			
Matrix Spike Dup (2348047-MSD1)				Source: E	311210-0	13	Prepared:	11/28/23	Analyzed: 11/28/23
Chloride	409	20.0	250	164	98.4	80-120	2.15	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 15:53

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.



eject Information			
	Information		

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ent: M	acik E Jest a	nessy	#10			Bill T Attention: ENERGY STA	FFING SERVICES		WO#		03	Job i	Numb		10	2D	3D		dard	CWA	SDV
	anager:	MOUNT	HIA	-	1 3	Address: 2724 NW COU	NTY RD	E 3	3112	11	34	200	340	d Metho		X					
dress:	arraber.				tion.	City, State, Zip HOBBS	, NM 88240					Analy	sis an	d Metho	d				開設		RC
ty, State	, Zip					Phone: 575-393-9048		-	i											State	
one:					16.7	Email: NATALIE@ENERGY		by 8015	3015				0					N	M CO	UT AZ	TX
nail:					1, 1	BRITTNEY@ENERC	SYSTAFFINGLLC.COM		by 8	3021	260	010	300.		N	×		1			
eport du	T			T	253		Lab	DRO/ORO	GRO/DRO by 8015	(by	by 8	Metals 6010	Chloride 300.0		200	20		Í		Remarks	
Time ampled	Date Sampled	Matrix	No. of Containers	Sample ID			Numbs	DRO	GRO	BTEX by 8021	VOC by 8260	Met	Chlo		96DOC	верос	_		_	nemarks	
	11/24/23	5	1	50	13	5 - 6'									X						
	1		1			-6'	2								1						
						~ 8'	3														
		-		< P	16	-8'	4														
		-	1	1		- 8'			+						1						
	1		+-,-					100	+			-	-		1.1	1	1				
	11/24/27)	(51	18	-6'	0		+						/	1	-				
								1831	100			-	-		-	-	-		_		
							(17.45)										1				
								14													
ddition	al Instruc	tions:)	1			,,				-										
(field sam	pler), attest to	o the validit	y and auther	nticity of this sa	mple. I an	n aware that tampering with or inter	ationally mislabelling the sar	nple loca	ition,			Samp	oles requ	iring therma	presen	ration n	nust be i	received on n 6 °C on su	ice the day	they are samp sys.	led or r
	e of collection ed by: (Sign		ed fraud and	l may be ground te	s for legal Time		Jica 501:5		Tim	ie . c		1				Lab l	Jse C				-
Juan	Sol'S ed by: (Sign		l l	124/23	Time	Received by: (Signature Received by: (Signature	eye II-	7di	Tim	110)	Re	ceive	d on ice	(Ŷ)/	N				
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elinquish	ed by: (Sign	ature)	Da	te	Time	Received by: (Signature	Date	- 1	1	1:3	_		G Tei		11						

@ envirotech

Printed: 11/28/2023 10:15:37AM

Envirotech Analytical Laboratory

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:	11/28/23 07:	:30	Work Orde	er ID:	E311211
Phone:	(575) 390-6397	Date Logged In:	11/27/23 14:	:57	Logged In	By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/29/23 17	:00 (1 day TAT)			
Chain of 1. Does th 2. Does th 3. Were sa 4. Was the 5. Were al Sample T 6. Did the Sample C 7. Was a s 8. If yes, v	Custody (COC) the sample ID match the COC? the number of samples per sampling site location may amples dropped off by client or carrier? the COC complete, i.e., signatures, dates/times, reque all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e., 15 minute hold time, are not included in this disucssicurn Around Time (TAT) COC indicate standard TAT, or Expedited TAT? Cooler tample cooler received? was cooler received in good condition?	tch the COC sted analyses?	Yes Yes No Yes Yes Yes Yes	Carrier: C		provi	•
	e sample(s) received intact, i.e., not broken?		Yes		Natalie Gladden		
	custody/security seals present?		No				
12. Was the	were custody/security seals intact? e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	NA Yes				
Sample C	<u>Container</u>						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Sa D Co Sample P	tel field sample labels filled out with the minimum information of the minimum information of the collected? Time Collected? ollectors name? **Treservation** The COC or field labels indicate the samples were page 1.		Yes Yes No				
	imple(s) correctly preserved?	reserved?	No NA				
	filteration required and/or requested for dissolved n	netals?	No				
26. Does t	se Sample Matrix the sample have more than one phase, i.e., multipha does the COC specify which phase(s) is to be analy		No NA				
Subcontr	act Laboratory_						
	imples required to get sent to a subcontract laborator subcontract laboratory specified by the client and i	-	No NA S	Subcontract Lab	: NA		
Client In	struction_						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311216

Job Number: 20046-0001

Received: 11/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/30/23

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: 11/30/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311216

Date Received: 11/29/2023 8:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/29/2023 8:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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 #1A	Panartad:	
7 W. Compress Road	Project Number:	20046-0001	Reported:	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/23 15:31	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 19-6'	E311216-01A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 20-6'	E311216-02A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 21-6'	E311216-03A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 22-6'	E311216-04A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 23-6'	E311216-05A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 24-6'	E311216-06A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 25-6'	E311216-07A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 26-6'	E311216-08A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 27-6'	E311216-09A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.
SP 28-6'	E311216-10A	Soil	11/27/23	11/29/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 19-6' E311216-01

	E311210-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0500	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
	92.5 %	70-130	11/29/23	11/30/23	
mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
ND	20.0	1	11/29/23	11/30/23	
	94.1 %	70-130	11/29/23	11/30/23	
mg/kg	mg/kg	Analy	st: KM		Batch: 2348064
ND	25.0	1	11/29/23	11/30/23	
ND	50.0	1	11/29/23	11/30/23	
	79.1 %	50-200	11/29/23	11/30/23	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2348054
ND	200	10	11/29/23	11/29/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 92.5 % mg/kg Mg/kg mg/kg ND 20.0 94.1 % mg/kg ND 25.0 ND 50.0 79.1 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg Mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 92.5 % 70-130 70-130 mg/kg mg/kg Analy ND 20.0 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 79.1 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/29/23 ND 0.0250 1 11/29/23 ND 0.0250 1 11/29/23 ND 0.0250 1 11/29/23 ND 0.0500 1 11/29/23 ND 0.0250 1 11/29/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/29/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/29/23 ND 50.0 1 11/29/23 ND 50.0 1 11/29/23 ND 50.0 1 11/29/23 ND 50.0 1 11/29/23 mg/kg mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 ND 0.0500 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/29/23 11/30/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/29/23 11/30/23 ND 50.0 1 11/29/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 20-6'

		E311216-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/29/23	
Surrogate: n-Nonane		79.6 %	50-200	11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348054
Chloride	ND	200	10	11/29/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 21-6'

E311216-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/29/23	
Surrogate: n-Nonane		81.2 %	50-200	11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348054
-	ND	200	10	11/29/23	11/29/23	



Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 22-6'

	E311216-04				
	Reporting				
t	Limit	Dilution	Prepared	Analyzed	Notes

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/29/23	
Surrogate: n-Nonane		85.8 %	50-200	11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2348054
Chloride	ND	200	10	11/29/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 23-6'

E311216-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/30/23	
Surrogate: n-Nonane		79.1 %	50-200	11/29/23	11/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348054
	ND	200	10	11/29/23	11/29/23	•



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 24-6'

E311216-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/30/23	
Surrogate: n-Nonane		81.9 %	50-200	11/29/23	11/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348054
			10	11/29/23	11/29/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 25-6'

E311	11	_	Λ_{7}
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	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: RKS		Batch: 2348048
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
ND	0.0500	1	11/29/23	11/30/23	
ND	0.0250	1	11/29/23	11/30/23	
	92.7 %	70-130	11/29/23	11/30/23	
mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
ND	20.0	1	11/29/23	11/30/23	
	92.9 %	70-130	11/29/23	11/30/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2348064
ND	25.0	1	11/29/23	11/30/23	
ND	50.0	1	11/29/23	11/30/23	
	80.2 %	50-200	11/29/23	11/30/23	
mg/kg	mg/kg	Analys	st: BA		Batch: 2348054
mg/kg	mg/kg				Battern: 25 1005 1
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MD 20.0 92.9 % mg/kg MD 25.0 ND 50.0 80.2 %	mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 92.7 % 70-130 mg/kg mg/kg Analys ND 20.0 1 92.9 % 70-130 1 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 80.2 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/29/23 ND 0.0250 1 11/29/23 ND 0.0250 1 11/29/23 ND 0.0500 1 11/29/23 ND 0.0250 1 11/29/23 ND 0.0250 1 11/29/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/29/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/29/23 ND 50.0 1 11/29/23 80.2 % 50-200 11/1/29/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 ND 0.0500 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 ND 0.0250 1 11/29/23 11/30/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/29/23 11/30/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/29/23 11/30/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/29/23 11/30/23 ND 50.0 1 11/29/23 11/30/23 ND 50.0 1 11/29/23 11/30/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 26-6'

E311216-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/30/23	
Surrogate: n-Nonane		83.0 %	50-200	11/29/23	11/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348054
Allohs by EPA 500.0/9050A						



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 27-6'

E311216-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/30/23	
Surrogate: n-Nonane		81.3 %	50-200	11/29/23	11/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348054



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

SP 28-6'

		E311216-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
Benzene	ND	0.0250	1	11/29/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/29/23	11/30/23	
Toluene	ND	0.0250	1	11/29/23	11/30/23	
o-Xylene	ND	0.0250	1	11/29/23	11/30/23	
o,m-Xylene	ND	0.0500	1	11/29/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/29/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348048
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	11/29/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2348064
Diesel Range Organics (C10-C28)	ND	25.0	1	11/29/23	11/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/29/23	11/30/23	
Surrogate: n-Nonane		80.8 %	50-200	11/29/23	11/30/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348054
Chloride	ND	200	10	11/29/23	11/29/23	



		QC S	umm	ary Data					
Mack Energy 7 W. Compress Road		Project Name: Project Number:		West Mount #1A 20046-0001					Reported:
Artesia NM, 88210		Project Manager:	N	Natalie Gladden					11/30/2023 3:31:13PM
		Volatile O	rganics	by EPA 8021	В				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348048-BLK1)							Prepared: 1	1/29/23 A	nalyzed: 11/30/23
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	7.52		8.00		94.0	70-130			
LCS (2348048-BS1)							Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Benzene	5.41	0.0250	5.00		108	70-130			
Ethylbenzene	5.30	0.0250	5.00		106	70-130			
Toluene	5.37	0.0250	5.00		107	70-130			
o-Xylene	5.30	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	7.44		8.00		93.0	70-130			
Matrix Spike (2348048-MS1)				Source: E	311216-0	04	Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133			
Toluene	5.23	0.0250	5.00	ND	105	61-130			
o-Xylene	5.17	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			
Matrix Spike Dup (2348048-MSD1)				Source: E	311216-0	04	Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Benzene	5.30	0.0250	5.00	ND	106	54-133	0.751	20	
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133	0.873	20	
Toluene	5.27	0.0250	5.00	ND	105	61-130	0.659	20	
o-Xylene	5.19	0.0250	5.00	ND	104	63-131	0.541	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	0.546	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	0.544	20	
			0.00		01.5	50 120			



Surrogate: 4-Bromochlorobenzene-PID

7.34

70-130

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	11/20/2022 2:21:12DM
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				11/30/2023 3:31:13PM
Nonhalogenated Organics by EPA 8015D - GRO Analyst: 1									
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2348048-BLK1)							Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			
LCS (2348048-BS2)							Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Gasoline Range Organics (C6-C10)	55.0	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			
Matrix Spike (2348048-MS2)				Source:	E311216-0)4	Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			
Matrix Spike Dup (2348048-MSD2)				Source:	E311216-0)4	Prepared: 1	1/29/23 A	nalyzed: 11/30/23
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130	2.47	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/2023 3:31:13PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1			1	1/30/2023 3:31:13PM
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: KM									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348064-BLK1)							Prepared: 1	1/29/23 Ana	alyzed: 11/29/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	40.9		50.0		81.8	50-200			
LCS (2348064-BS1)							Prepared: 1	1/29/23 An	alyzed: 11/29/23
Diesel Range Organics (C10-C28)	215	25.0	250		86.1	38-132			
urrogate: n-Nonane	41.3		50.0		82.7	50-200			
Matrix Spike (2348064-MS1)				Source:	E311134-0)6	Prepared: 1	1/29/23 Ana	alyzed: 11/29/23
Diesel Range Organics (C10-C28)	991	125	250	823	67.2	38-132			
urrogate: n-Nonane	42.4		50.0		84.7	50-200			
Matrix Spike Dup (2348064-MSD1)				Source:	E311134-0)6	Prepared: 1	1/29/23 An	alyzed: 11/29/23
Diesel Range Organics (C10-C28)	1040	125	250	823	87.9	38-132	5.10	20	
urrogate: n-Nonane	44.8		50.0		89.6	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount #1A					Reported:
Artesia NM, 88210		Project Manager:		atalie Gladden					11/30/2023 3:31:13PM
		Anions	by EPA 3	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348054-BLK1)							Prepared:	11/29/23	Analyzed: 11/29/23
Chloride	ND	20.0							
LCS (2348054-BS1)							Prepared:	11/29/23	Analyzed: 11/29/23
Chloride	245	20.0	250		97.8	90-110			
Matrix Spike (2348054-MS1)				Source: E	311216-0)2	Prepared:	11/29/23	Analyzed: 11/29/23
Chloride	243	200	250	ND	97.4	80-120			
Matrix Spike Dup (2348054-MSD1)				Source: E	311216-0)2	Prepared:	11/29/23	Analyzed: 11/29/23
Chloride	248	200	250	ND	99.4	80-120	2.03	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/30/23 15:31

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.



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Printed: 11/29/2023 1:56:19PM

Envirotech Analytical Laboratory

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:	11/29/23	08:30	Work Order ID	e: E311216
Phone:	(575) 390-6397	Date Logged In:	11/28/23	15:38	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/30/23	17:00 (1 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location mat	ch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		Yes		Comme	ents/Resolution
	Curn Around Time (TAT) • COC indicate standard TAT, or Expedited TAT?		Yes		Project Manager Nata	alie Gladden and time
Sample C					sampled is not provid	ed on COC by client.
_	sample cooler received?		Yes		•	•
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>			
Sample C	<u>Container</u>					
14. Are a	queous VOC samples present?		No			
15. Are V	OC 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 n	on-VOC samples collected in the correct containers	?	Yes			
19. Is the	appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field Lal	<u>oel</u>					
	field sample labels filled out with the minimum info	rmation:	37			
	ample ID? ate/Time Collected?		Yes			
	ollectors name?		Yes No			
	reservation		140			
	the COC or field labels indicate the samples were pr	eserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved m	etals?	No			
Multipha	se Sample Matrix					
_	the sample have more than one phase, i.e., multipha	se?	No			
	, does the COC specify which phase(s) is to be analy		NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborator	ry?	No			
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	o: NA	
Client II	<u>nstruction</u>					
1						
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<u> </u>	ome of client outh origin - the control of COC	- a sition			D-4-	— 🥝 envirotech Inc
Signat	ure of client authorizing changes to the COC or sample dis-	JOSHION.			Date	ELIALI OFECTI THE

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

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311227

Job Number: 20046-0001

Received: 11/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/4/23

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: 12/4/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311227

Date Received: 11/30/2023 7:30:00AM

Natalie Gladden,

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

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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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 #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu.
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/04/23 13:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 -2	E311227-01A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW2 -2	E311227-02A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW3 -2	E311227-03A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW4 -2	E311227-04A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW5 -2	E311227-05A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW6 -2	E311227-06A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW7 -2	E311227-07A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW8 -2	E311227-08A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW9 -2	E311227-09A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW10 -2	E311227-10A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW11 -2	E311227-11A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW12 -2	E311227-12A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW13 -2	E311227-13A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW14 -2	E311227-14A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW15 -2	E311227-15A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW1 -2 E311227-01

		E311227-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	ykg mg/kg Analyst: RKS			Batch: 2348075	
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: RKS			Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		91.2 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348082
Chloride	139	20.0	1	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW2 -2

E311227-02

Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2348075
ND	0.0250	1	11/30/23	11/30/23	
ND	0.0250	1	11/30/23	11/30/23	
ND	0.0250	1	11/30/23	11/30/23	
ND	0.0250	1	11/30/23	11/30/23	
ND	0.0500	1	11/30/23	11/30/23	
ND	0.0250	1	11/30/23	11/30/23	
	96.7 %	70-130	11/30/23	11/30/23	
mg/kg	mg/kg	Analyst: RKS			Batch: 2348075
ND	20.0	1	11/30/23	11/30/23	
	90.9 %	70-130	11/30/23	11/30/23	
mg/kg	mg/kg	g Analyst: JL			Batch: 2348083
ND	25.0	1	11/30/23	12/01/23	
ND	50.0	1	11/30/23	12/01/23	
	92.7 %	50-200	11/30/23	12/01/23	
			1 . 7.4		D . 1 2240002
mg/kg	mg/kg	Ana	alyst: BA		Batch: 2348082
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 90.9 % mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Am ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.250 1 MB/kg mg/kg Am MB/kg mg/kg Am MB/kg mg/kg Am ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/30/23 ND 0.0250 1 11/30/23 ND 0.0250 1 11/30/23 ND 0.0250 1 11/30/23 ND 0.0500 1 11/30/23 ND 0.0250 1 11/30/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/30/23 mg/kg mg/kg Analyst: JL ND 25.0 1 11/30/23 ND 25.0 1 11/30/23 ND 50.0 1 11/30/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/30/23 11/30/23 ND 0.0250 1 11/30/23 11/30/23 ND 0.0250 1 11/30/23 11/30/23 ND 0.0500 1 11/30/23 11/30/23 ND 0.0250 1 11/30/23 11/30/23 ND 0.0250 1 11/30/23 11/30/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 11/30/23 11/30/23 mg/kg mg/kg Analyst: JL ND 25.0 1 11/30/23 12/01/23 ND 25.0 1 11/30/23 12/01/23 12/01/23 ND 50.0 1 11/30/23 12/01/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW3 -2

E311227-03

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		89.8 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2348082
Chloride	143	40.0	2	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW4 -2

E311227-04

		2011227 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg Analyst: RKS		1 11111/200	Batch: 2348075		
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS			Batch: 2348075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: JL			Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		80.6 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348082
Chloride	150	40.0	2	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW5 -2

E311227-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		77.6 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2348082
Chloride	143	20.0	1	11/30/23	11/30/23	•



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW6 -2

E311227-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		73.3 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2348082
Chloride	221	200	10	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW7 -2

		E311227-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		86.4 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2348082
Chloride	214	200	10	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW8 -2

E311227-08

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		87.9 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2348082
Chloride	221	200	10	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW9 -2

E311227-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		86.1 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2348082
Chloride	224	200	10	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW10 -2 E311227-10

		E311227-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
	mg/kg	mg/kg	Δnalv	st: RKS	<u> </u>	Batch: 2348075
Volatile Organics by EPA 8021B				11/30/23	11/30/23	Batch. 2346073
Benzene	ND	0.0250	1			
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		94.1 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348082
Chloride	ND	200	10	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW11 -2 E311227-11

		E311227-11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anaiy	rst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		93.8 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2348082
Chloride	ND	200	10	11/30/23	11/30/23	·



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW12 -2

		E311227-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348075
Benzene	ND	0.0250	1	11/30/23	11/30/23	
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23	
Toluene	ND	0.0250	1	11/30/23	11/30/23	
o-Xylene	ND	0.0250	1	11/30/23	11/30/23	
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23	
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348075
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	11/30/23	11/30/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23	
Surrogate: n-Nonane		93.7 %	50-200	11/30/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348082
Chloride	ND	200	10	11/30/23	11/30/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW13 -2

		E311227-13								
Reporting										
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes				
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2348075				
Benzene	ND	0.0250	1	11/30/23	11/30/23					
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23					
Toluene	ND	0.0250	1	11/30/23	11/30/23					
o-Xylene	ND	0.0250	1	11/30/23	11/30/23					
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23					
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23					
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	11/30/23	11/30/23					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2348075				
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23					
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	11/30/23	11/30/23					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2348083				
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23					
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23					
Surrogate: n-Nonane		80.3 %	50-200	11/30/23	12/01/23					
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2348082				
Chloride	ND	20.0	1	11/30/23	11/30/23					



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW14 -2

E311227-14										
Reporting										
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes				
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348075				
Benzene	ND	0.0250	1	11/30/23	11/30/23					
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23					
Toluene	ND	0.0250	1	11/30/23	11/30/23					
o-Xylene	ND	0.0250	1	11/30/23	11/30/23					
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23					
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23					
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	11/30/23	11/30/23					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2348075				
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23					
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	11/30/23	11/30/23					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2348083				
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23					
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/01/23					
Surrogate: n-Nonane		80.0 %	50-200	11/30/23	12/01/23					
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2348082				
Chloride	ND	200	10	11/30/23	11/30/23					



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

SW15 -2

E311227-15										
Reporting										
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes				
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348075				
Benzene	ND	0.0250	1	11/30/23	11/30/23					
Ethylbenzene	ND	0.0250	1	11/30/23	11/30/23					
Toluene	ND	0.0250	1	11/30/23	11/30/23					
o-Xylene	ND	0.0250	1	11/30/23	11/30/23					
p,m-Xylene	ND	0.0500	1	11/30/23	11/30/23					
Total Xylenes	ND	0.0250	1	11/30/23	11/30/23					
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	11/30/23	11/30/23					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348075				
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	11/30/23					
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	11/30/23	11/30/23					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2348083				
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/01/23					
Oil Range Organics (C28-C36)	ND	50.0	11	11/30/23	12/01/23					
Surrogate: n-Nonane		77.8 %	50-200	11/30/23	12/01/23					
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348082				
Chloride	ND	200	10	11/30/23	11/30/23					



OC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount #1A 046-0001					Reported:		
Artesia NM, 88210		Project Manager:	Na	ntalie Gladden					12/4/2023 1:51:16PM		
Volatile Organics by EPA 8021B											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2348075-BLK1)							Prepared: 1	1/30/23 A	analyzed: 11/30/23		
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	7.61		8.00		95.1	70-130					
LCS (2348075-BS1)							Prepared: 1	1/30/23 A	analyzed: 11/30/23		
Benzene	5.34	0.0250	5.00		107	70-130					
Ethylbenzene	5.25	0.0250	5.00		105	70-130					
Toluene	5.31	0.0250	5.00		106	70-130					
o-Xylene	5.28	0.0250	5.00		105	70-130					
p,m-Xylene	10.7	0.0500	10.0		107	70-130					
Total Xylenes	16.0	0.0250	15.0		106	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130					
Matrix Spike (2348075-MS1)				Source: E	311227-0	09	Prepared: 1	1/30/23 A	analyzed: 11/30/23		
Benzene	5.37	0.0250	5.00	ND	107	54-133					
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133					
Toluene	5.35	0.0250	5.00	ND	107	61-130					
o-Xylene	5.34	0.0250	5.00	ND	107	63-131					
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131					
Total Xylenes	16.1	0.0250	15.0	ND	108	63-131					
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130					
Matrix Spike Dup (2348075-MSD1)				Source: E	311227-0	09	Prepared: 1	1/30/23 A	analyzed: 11/30/23		
Benzene	5.35	0.0250	5.00	ND	107	54-133	0.481	20			
Ethylbenzene	5.29	0.0250	5.00	ND	106	61-133	0.447	20			
Toluene	5.34	0.0250	5.00	ND	107	61-130	0.229	20			
	5.31	0.0250	5.00	ND	106	63-131	0.516	20			
o-Xylene p,m-Xylene Total Xylenes	10.8 16.1	0.0500 0.0250	10.0 15.0	ND ND	108 107	63-131 63-131	0.345 0.402	20 20			



7.64

8.00

70-130

95.4

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladdei	n				12/4/2023 1:51:16PM
	Nor	halogenated	Organics l	by EPA 80	15D - Gl	RO			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
Blank (2348075-BLK1)							Prepared: 1	1/30/23	Analyzed: 11/30/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			
LCS (2348075-BS2)							Prepared: 1	1/30/23	Analyzed: 11/30/23
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			
Matrix Spike (2348075-MS2)				Source:	E311227-0)9	Prepared: 1	1/30/23	Analyzed: 11/30/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			
Matrix Spike Dup (2348075-MSD2)				Source:	E311227-0)9	Prepared: 1	1/30/23	Analyzed: 11/30/23
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	0.782	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.6	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 1:51:16PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladden	l				12/4/2023 1:51:16PM
	Nonha	logenated Or	ganics by l	EPA 8015I	o - DRO	ORO/			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348083-BLK1)							Prepared: 1	1/30/23	Analyzed: 12/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.6		50.0		97.2	50-200			
LCS (2348083-BS1)							Prepared: 1	1/30/23	Analyzed: 12/02/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
urrogate: n-Nonane	47.2		50.0		94.4	50-200			
Matrix Spike (2348083-MS1)				Source:	E311227-0)3	Prepared: 1	1/30/23	Analyzed: 12/02/23
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132			
urrogate: n-Nonane	51.2		50.0		102	50-200			
Matrix Spike Dup (2348083-MSD1)				Source:	E311227-0)3	Prepared: 1	1/30/23	Analyzed: 12/02/23
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	0.369	20	
'urrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager	20	est Mount #1. 0046-0001 atalie Gladder					Reported: 12/4/2023 1:51:16PM
		Anions	by EPA 3	00.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348082-BLK1)							Prepared: 1	1/30/23 A	nalyzed: 11/30/23
Chloride	ND	20.0							
LCS (2348082-BS1)							Prepared: 1	1/30/23 A	analyzed: 11/30/23
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2348082-MS1)				Source:	E311227-0)3	Prepared: 1	1/30/23 A	analyzed: 11/30/23
Chloride	393	40.0	250	143	99.7	80-120			
Matrix Spike Dup (2348082-MSD1)				Source:	E311227-0)3	Prepared: 1	1/30/23 A	analyzed: 11/30/23
Chloride	387	40.0	250	143	97.3	80-120	1.54	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

Г	Mack Energy	Project Name:	West Mount #1A	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	12/04/23 13:51

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

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	13/2023 1:10:	40000
	<i>13/2023 1:10:4</i>	40000
	13/2023 1:10:40	40000
	13/2023 1:10:40	40000
	13/2023 1:10:40 P	
	13/2023 1:10:40 P	

Chain of Custody

	1	-
Page	of	1

Received by OCD: 5/16/2025 12:00:30 AM

Client: /	lacy	Eve	rail		Bill To	Kr.			La	ab Us	se On	ly				TA	T	EPA P	rogram
Project:	Nest	MOUV	NEF	+	Attention: ENERGY STAF	FING SERVICES	Lab	WO#	1		Job I	Numl		1D	2D	3D	Standard	CWA	SDWA
Project N	lanager:				Address: 2724 NW COUN		E2	3117	2				-000		×				
Address:	-				City, State, Zip HOBBS,	NM 88240							d Metho		d			RCRA	
City, Stat	e, Zip				Phone: 575-393-9048														
Phone:					Email: NATALIE@ENERGYS	Email: NATALIE@ENERGYSTAFFINGLLC.COM 2 2								1				State	
Email:					BRITTNEY@ENERGY	YSTAFFINGLLC.COM	0y 80	0 8 KG	21	0	0	0.0		ΣN	NM CO UT A			UT AZ	TX
Report d	ue by:						ROL	ROL	y 80	826	601	le 3C			X		X		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks	
	1/28/23	5	1	SW1-	- 2								1	X					
		1		SWZ	-2	2								1					
				- 0	- 2	3								1					
				Saul	-1	4								1					
				5/1/6	-1	5								1					
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	1/28/13	5	1	5001	J-2	10								X					
Addition	al Instruc	ions:																	
				ticity of this sample. may be grounds for I	I am aware that tampering with or intention egal action. Sampled by:		e locat	ion,						A COLUMN			ceived on ice the day 6 °C on subsequent o		led or received
Relinquish	ed by: (Signa	ture)		18/13 Time		1 Date 0	23	Time	35	0	Rec	eive	on ice:		O I	lse Or	nly		
Relinquish	ed by: (Signa	Cure!	. Date	-29-23 Time	Received by: (Signature)	Date 11.7	97	Time	17	20	T1			T2			T3		
Relinquish	ed by: (Sign	ture)	Date	1.29.23 Time	Received by: (Signature)	Date 11/30	123	Time	:30	2	AVO	G Ten	np °C	4					
				Aqueous, O - Other	1110	Containe	r Typ	e:g-	glass	, p - j				oer gla	ass, v	- VOA	X		
					d unless other arrangements are made.													alysis of the	above
					boratory with this COC. The liability of														



Lab Use Only

Job Number

Bill To

Attention: ENERGY STAFFING SERVICES

EPA Program

SDWA

CWA

Received by OCD: 5/16/2025 12:00:30 AM



TAT

1D 2D

3D Standard

Printed: 11/30/2023 7:47:31AM

Envirotech Analytical Laboratory

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.

			,		3	
Client:	Mack Energy	Date Received:	11/30/23	07:30	Work Order ID:	E311227
Phone:	(575) 390-6397	Date Logged In:	11/30/23	07:43	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	12/01/23	17:00 (1 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location match	h the COC	Yes			
	imples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courrier</u>	
	COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No			
5. Were al	I samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Comment	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not provi	ided on COC per
Sample C	<u>ooler</u>				client.	
7. Was a s	ample cooler received?		Yes			
8. If yes, v	vas cooler received in good condition?		Yes		Project manager not list	red on COC Natalie
9. Was the	sample(s) received intact, i.e., not broken?		Yes		-	ed on COC. Natane
10. Were	custody/security seals present?		No		Gladden.	
	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are a minutes of sampling risible ice, record the temperature. Actual sample to	received w/i 15	Yes			
		imperature. 1	2			
Sample C	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	ppropriate volume/weight or number of sample containers.	rs collected?	Yes			
Field Lab	•	is conceica.	105			
	ield sample labels filled out with the minimum infor	mation:				
	imple ID?		Yes			
	ate/Time Collected?		No			
Co	ollectors name?		No			
	<u>reservation</u>					
	he COC or field labels indicate the samples were pre-	served?	No			
	mple(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved me	tals?	No			
	se Sample Matrix					
	he sample have more than one phase, i.e., multiphase		No			
27. If yes,	does the COC specify which phase(s) is to be analyz	ed?	NA			
Subcontra	act Laboratory					
28. Are sa	mples required to get sent to a subcontract laboratory	?	No			
29. Was a	subcontract laboratory specified by the client and if s	so who?	NA	Subcontract Lab	o: NA	
Client In	struction					
						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E311241

Job Number: 20046-0001

Received: 12/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/4/23

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: 12/4/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E311241

Date Received: 12/1/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/1/2023 7:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Donortod
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/04/23 15:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 16 -3'	E311241-01A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 17 -3'	E311241-02A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 18 -2'	E311241-03A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 19 -2'	E311241-04A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 20 -2'	E311241-05A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 21 -2'	E311241-06A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 22 -2'	E311241-07A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 23 -4'	E311241-08A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 24 -2'	E311241-09A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 25 -3'	E311241-10A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 26 -3'	E311241-11A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 27 -3'	E311241-12A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW 28 -4'	E311241-13A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 16 -3' E311241-01

		E311241-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
o,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		90.3 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348106
Chloride	ND	200	10	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 17 -3'

E311241-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		90.3 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348106
Chloride	ND	200	10	12/01/23	12/02/23	·



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 18 -2'

E311241-03						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		92.2 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2348106
Chloride	ND	20.0	1	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 19 -2'

E311241-04						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		90.9 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2348106
Chloride	ND	20.0	1	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 20 -2' E311241-05

		E311241-05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				1		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		90.5 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2348106
Chloride	ND	20.0	1	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 21 -2' E311241-06

		E311241-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		91.9 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348106
Chloride	ND	20.0	1	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 22 -2'

		E311241-07				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		92.9 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2348106
Chloride	ND	20.0	1	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 23 -4'

E311241-08

		2011211 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· ·	mg/kg	mg/kg		t: RKS	7 mary 200	Batch: 2348094
Volatile Organics by EPA 8021B	ND	0.0250	1	12/01/23	12/03/23	Batch: 2540074
Benzene			1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	I			
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		91.0 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2348106
Chloride	ND	200	10	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 24 -2' E311241-09

		E311241-09				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		87.4 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2348106
Chloride	ND	200	10	12/01/23	12/02/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 25 -3'

		E311241-10					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348094	
Benzene	ND	0.0250	1	12/01/23	12/03/23		
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23		
Toluene	ND	0.0250	1	12/01/23	12/03/23		
o-Xylene	ND	0.0250	1	12/01/23	12/03/23		
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23		
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23		
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	12/01/23	12/03/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	12/01/23	12/03/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2348098	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23		
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23		
Surrogate: n-Nonane		88.6 %	50-200	12/01/23	12/01/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348106	
Chloride	ND	200	10	12/01/23	12/02/23		



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 26 -3'

		E311241-11					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348094	
Benzene	ND	0.0250	1	12/01/23	12/03/23		
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23		
Toluene	ND	0.0250	1	12/01/23	12/03/23		
o-Xylene	ND	0.0250	1	12/01/23	12/03/23		
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23		
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23		
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	12/01/23	12/03/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	12/01/23	12/03/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2348098	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23		
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23		
Surrogate: n-Nonane		91.2 %	50-200	12/01/23	12/01/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2348106	
Chloride	ND	200	10	12/01/23	12/02/23		



Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 27 -3'

		E311241-12				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ai	nalyst: RKS		Batch: 2348094
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2348098
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		88.1 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2348106

200

ND

12/01/23

10

12/02/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

SW 28 -4'

		E311241-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2348094
Benzene	ND	0.0250	1	12/01/23	12/03/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/03/23	
Toluene	ND	0.0250	1	12/01/23	12/03/23	
o-Xylene	ND	0.0250	1	12/01/23	12/03/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/03/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/03/23	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	12/01/23	12/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2348098	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/01/23	
Surrogate: n-Nonane		88.5 %	50-200	12/01/23	12/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348106
Chloride	ND	200	10	12/01/23	12/02/23	



		QC SI	umma	iry Data	l				
Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount #1A 0046-0001	.				Reported:
Artesia NM, 88210	Project Manager:			atalie Gladden			12/4/2023 3:0		
		Volatile O	rganics b	oy EPA 8021	1B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348094-BLK1)							Prepared: 1	2/01/23 A	analyzed: 12/03/23
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	7.45		8.00		93.1	70-130			
LCS (2348094-BS1)							Prepared: 1	2/01/23 A	analyzed: 12/03/23
Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.6	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.99	0.0250	5.00		99.7	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			
Matrix Spike (2348094-MS1)				Source: I	E 311241- ()3	Prepared: 1	2/01/23 A	analyzed: 12/03/23
Benzene	5.09	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.9	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	7.26		8.00		90.7	70-130			
Matrix Spike Dup (2348094-MSD1)				Source: I	E311241-0)3	Prepared: 1	2/01/23 A	analyzed: 12/03/23
Benzene	5.01	0.0250	5.00	ND	100	54-133	1.42	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.5	61-133	1.28	20	
	4.00	0.0250	5.00	ND	99.8	61-130	1.34	20	
Γoluene	4.99	0.0230			,,,,				
Toluene o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131	1.52	20	

8.00

7.42

92.7

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1				12/4/2023 3:03:00PM
	Nor	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348094-BLK1)							Prepared:	12/01/23	Analyzed: 12/03/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			
LCS (2348094-BS2)							Prepared:	12/01/23	Analyzed: 12/03/23
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			
Matrix Spike (2348094-MS2)				Source:	E311241-0	03	Prepared:	12/01/23	Analyzed: 12/03/23
Gasoline Range Organics (C6-C10)	54.4	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			
Matrix Spike Dup (2348094-MSD2)				Source:	E311241-0	03	Prepared:	12/01/23	Analyzed: 12/03/23
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130	3.31	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/4/2023 3:03:00PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				12/4/2023 3:03:00PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348098-BLK1)							Prepared: 1	2/01/23 Aı	nalyzed: 12/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		93.1	50-200			
LCS (2348098-BS1)							Prepared: 1	2/01/23 Aı	nalyzed: 12/01/23
Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			
Matrix Spike (2348098-MS1)				Source:	E311240-0)3	Prepared: 1	2/01/23 Aı	nalyzed: 12/01/23
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			
Matrix Spike Dup (2348098-MSD1)				Source:	E311240-0)3	Prepared: 1	2/01/23 Aı	nalyzed: 12/01/23
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	1.13	20	
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			



Mack Energy		Project Name:		est Mount #1A					Reported:				
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladden					12/4/2023 3:03:00PM				
Anions by EPA 300.0/9056A Analyst: BA													
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2348106-BLK1)							Prepared:	12/01/23	Analyzed: 12/01/23				
Chloride	ND	20.0											
LCS (2348106-BS1)							Prepared:	12/01/23	Analyzed: 12/01/23				
Chloride	249	20.0	250		99.7	90-110							
Matrix Spike (2348106-MS1)				Source: 1	E 311240- 0	1	Prepared:	12/01/23	Analyzed: 12/01/23				
Chloride	345	20.0	250	90.7	102	80-120							
Matrix Spike Dup (2348106-MSD1)				Source: 1	E 311240- 0	1	Prepared:	12/01/23	Analyzed: 12/02/23				
Chloride	338	20.0	250	90.7	98.7	80-120	2.14	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

ſ	Mack Energy	Project Name:	West Mount #1A	
1	7 W. Compress Road	Project Number:	20046-0001	Reported:
1	Artesia NM, 88210	Project Manager:	Natalie Gladden	12/04/23 15:03

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 330 of 664

Bill To

Attention: ENERGY STAFFING SERVICES

Address: 2724 NW COUNTY RD

Phone: 575-393-9048

City, State, Zip HOBBS, NM 88240

Lab Use Only

Job Number

10046-0001

Analysis and Method

Released to

roject Manager:

ddress:

City, State, Zip

lient: MOCK Energy

roject: West Mount #1A

CWA

hone:					Email: NATALIE@ENERGY	YSTAFFINGLLC.COM	by 8015	015		1					NM CO UT AZ TX
mail: eport d	ue by:				BRITTNEY@ENERG	GYSTAFFINGLLC.COM	8 yd C	8 kg C	8021	by 8260	6010	300.0	NW	×	2
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	[ROM]	Lab Number	DRO/ORO	GRO/DRO by 8015	втех by	VOC by 8	Metals 6	Chloride	ВСВОС	верос	Remarks
	11/29/23	5	1	SW	16 - 3'		-						\times		
			1	5w	17 - 3'	2									
				5W	18 - 2'	3					Olympia and				
				5w	19 - 2'	4									
				5ω	20 - 2'	5									
				5w	21 - 2'	6									
				5w	22 - 2'										
				SW	23 - 4'	8									
			1	Sw	24 - 2'	9									
	11/24/23	5	1	5w	25 - 3'	10							X		
Additio	nal Instruc	tions:													
				nticity of this sam may be grounds	ple. I am aware that tampering with or inten- for legal action. Sampled by:	ntionally mislabelling the sample	e locati	ion,			Sample	es requiring the in ice at an av	g temp abov	e 0 but less th	e received on ice the day they are sampled or received han 6 °C on subsequent days.
Relinquis	hed by: (Sign Solis hed of: (Sign	ature)	Dat	129/23	The Computation of the Computati	Xar 1130	23				Rec	eived on i	ce: (Y) / N	Only
	. / /	10 111	11	302022	730 Andrew Muse	6 11.3	0.23		180	0	T1		<u>T2</u>		<u>T3</u>
	hed by: (Sign		V 10-	1.30.23	irms Decoived by Gignsture	12/11	23	7	:3	0	AVO	E Temp °C	4		33
Sample M	atriv-S - Soil s	d-Solid S	e-Studee 4	- Adueous O - Ot	her	Containe	r Typ	e: g -	glass	p - p	oly/p	lastic, ag -	amber g	lass, v - V	AC
Note: Sa	mples are dis	carded 30) days after ose sample:	results are repos s received by th	orted unless other arrangements are ma be laboratory with this COC. The liability	de. Hazardous samples will of the laboratory is limited to	I be re to the	eturne amou	d to c nt pai	lient o d for c	r disponding	osed of at the report.	e client e	xpense. T	he report for the analysis of the above

TAT

3D | Standard

1D 2D

oject	Information

Chain of Custody

Page 2 of 2

CES C.COM C.COM	E	WO# 311		1	Job 1	Number 240-000 sis and Method		2D 3	Standard	CWA	SDWA
C.COM LC.COM	E	311	24	124	200 Analy	SUG-0001		X		1	1
LC.COM				1	Analy	sis and Method				1	1
LC.COM	8015	5				313 6116 1116 4116	1				RCRA
LC.COM	8015	un							STATE OF STA		1
LC.COM	80					1 1		9		State	7 mm c 3
	2	y 80	2.1	0	0	300.0	NW		NM CO	UT AZ	TX
	ROt	ROB	y 8021	/8260	109	Je 30		×	X		
Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by	VOC by	Metals 6010	Chloride	BGDOC	верос		Remarks	
11							X				
12							1		200		
of the second							X				
		1	9			l l					
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ing the sam	ple loca	tion,			Sam	cles requiring therma	presen	etion must	te received on ice the da	y they are samy	pled or receiv
Solis			-		_					20/111	
Date 1	302	023	1	300	Re	ceived on ice:	(A)\ N	Only		
Date	30.2	3	80	0	71		T2		<u>T3</u>		
Date	173	Z Tim	7:	30	AV	G Temp °C 4	4		15		
Contain	ner Ty	ne: e	- glas	s p -				ass. v - \	/OA		
samples		0									
	ng the sam Soli S	ng the sample loca Soli S Cate 11-302 Date 11-30-2 Container Ty	ng the sample location, Soli S Case Tim 11.30.23 Date Tim 12.11.23 Container Type: 9	ing the sample Iccation, Soli S Date 11-302023 Time 11:30:23 Time 11:20:23 Time 11:23 Time	ing the sample location, Soli S Date 11-30203 130 Time 11:30.23 1800 Cate 121123 7-30	ing the sample location, Soli S Date Time 13000 T1 Cate VIII 23 7-30 AN	ing the sample location, Soli S Care Time 300 Received on ice: 1130.23 1900 T1 Cate Time 130 AVG Temp °C 4	ing the sample location, Soli S Cate Time 11.30.23 Cate Time 12.00 Tate Time 12.00 Tate Time 13.00 Tate Time 13.00 Tate Time Tate Time Tate Tate Tate Tate Tate Tate Tate Tat	Ing the sample location, Soli S Cate Time T2 Cate Time T2 Cate Time T2 Cate Time T2 AVG Temp °C AVG Temp °C	ng the sample location, Samples requiring thermal preservation must be received on ice the day packed in ice at an avg temp above 0 but less than 6 °C on subsequent of the samples of the	ing the sample location, Samples reculring thermal preservation must be received on ice the day they are sampled in ice at an avg temp above 0 but less than 6 °C on subsequent days. Date



Printed: 12/1/2023 8:55:38AM

Envirotech Analytical Laboratory

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:	12/01/23 0	7:30	Work Order I	ID: E311241
Phone:	(575) 390-6397	Date Logged In:	11/30/23 14	4:16	Logged In By	y: Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	12/04/23 1	7:00 (1 day TAT)		
 Does th Does th Were sa Was the Were al 	e sample ID match the COC? e number of samples per sampling site location management of samples per sampling site location management of the complete of the complete of the complete, i.e., signatures, dates/times, request samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssicurn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?	sted analyses?	Yes Yes Yes No Yes	Carrier: <u>C</u>		nents/Resolution rovided on COC per
Sample C	<u>ooler</u>				client.	
	ample cooler received?		Yes			
8. If yes, v	vas cooler received in good condition?		Yes		Project manager not	listed on COC. Natalie
9. Was the	sample(s) received intact, i.e., not broken?		Yes		Gladden.	
10. Were	custody/security seals present?		No		Gladdell.	
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling risible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C	<u>ontainer</u>					
14. Are aq	ueous VOC samples present?		No			
15. Are V	OC 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 no	on-VOC samples collected in the correct containers	?	Yes			
19. Is the a	ppropriate volume/weight or number of sample contain	ners collected?	Yes			
Sa Da	el Teld sample labels filled out with the minimum info Imple ID? The Collected? The Collected? The Collected of the collecte	ormation:	Yes No No			
	reservation		110			
21. Does t	he COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	mple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does t	he sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontra	act Laboratory					
28. Are sa	mples required to get sent to a subcontract laborato subcontract laboratory specified by the client and it	-	No NA	Subcontract Lab	o: NA	
Client In	<u>struction</u>					
						1
						1

Date

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

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E312002

Job Number: 20046-0001

Received: 12/4/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/5/23

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: 12/5/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E312002

Date Received: 12/4/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/4/2023 7:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/05/23 13:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW29-2'	E312002-01A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW30-2'	E312002-02A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW31-2'	E312002-03A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW32-4'	E312002-04A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW33-2'	E312002-05A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW34-2'	E312002-06A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW35-2'	E312002-07A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW36-2'	E312002-08A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW37-2'	E312002-09A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW38-2'	E312002-10A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW39-2'	E312002-11A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.
SW40-2'	E312002-12A	Soil	11/30/23	12/04/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW29-2' E312002-01

	E312002-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	•		Batch: 2349004
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0500	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
	97.5 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Analy	Analyst: RKS		
ND	20.0	1	12/04/23	12/04/23	
	92.7 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Analy	st: KM		Batch: 2349007
ND	25.0	1	12/04/23	12/04/23	
ND	50.0	1	12/04/23	12/04/23	
	93.4 %	50-200	12/04/23	12/04/23	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2349008
ND	20.0	1	12/04/23	12/04/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 97.5 % mg/kg mg/kg mg/kg ND 20.0 92.7 % mg/kg MD 25.0 ND 50.0 93.4 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg Manaly ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.5 % 70-130 mg/kg mg/kg Analy ND 20.0 1 92.7 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 93.4 % 50-200 mg/kg Mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0500 1 12/04/23 ND 0.0250 1 12/04/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/04/23 mg/kg mg/kg Analyst: KM ND 25.0 1 12/04/23 ND 25.0 1 12/04/23 ND 50.0 1 12/04/23 ND 50.0 1 12/04/23 ND 50.0 1 12/04/23 Mg/kg mg/kg Analyst: BA	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0500 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/04/23 12/04/23 mg/kg mg/kg Analyst: KM ND 25.0 1 12/04/23 12/04/23 ND 25.0 1 12/04/23 12/04/23 ND 50.0 1 12/04/23 12/04/23 ND 50.0 1 12/04/23 12/04/23 ND 50.0 1 12/04/23



Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW30-2'

E312002-02							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2349004	
Benzene	ND	0.0250	1	12/04/23	12/04/23		
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23		
Toluene	ND	0.0250	1	12/04/23	12/04/23		
o-Xylene	ND	0.0250	1	12/04/23	12/04/23		
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23		
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23		
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	12/04/23	12/04/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2349004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	12/04/23	12/04/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2349007	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23		
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23		
Surrogate: n-Nonane		92.0 %	50-200	12/04/23	12/04/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2349008	

20.0

199

12/04/23

12/04/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW31-2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		91.3 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2349008
Chloride	ND	20.0	1	12/04/23	12/04/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW32-4'

		E312002-04				
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		88.6 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2349008
Chloride	ND	20.0	1	12/04/23	12/04/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW33-2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		86.8 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2349008
Chloride	ND	20.0	1	12/04/23	12/04/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW34-2'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		89.1 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2349008
Chloride	ND	20.0	1	12/04/23	12/04/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW35-2'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: RKS		Batch: 2349004
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0500	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
	96.1 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Analyst	: RKS		Batch: 2349004
ND	20.0	1	40/04/00		
	20.0	1	12/04/23	12/04/23	
	94.5 %	70-130	12/04/23	12/04/23	
mg/kg		70-130 Analyst	12/04/23		Batch: 2349007
mg/kg ND	94.5 %		12/04/23		Batch: 2349007
	94.5 % mg/kg		12/04/23 :: KM	12/04/23	Batch: 2349007
ND	94.5 % mg/kg 25.0		12/04/23 : KM 12/04/23	12/04/23	Batch: 2349007
ND	94.5 % mg/kg 25.0 50.0	Analyst 1 1	12/04/23 : KM 12/04/23 12/04/23	12/04/23 12/04/23 12/04/23	Batch: 2349007 Batch: 2349008
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 mD 96.1 % mg/kg mg/kg	mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 96.1 % 70-130 mg/kg mg/kg Analyst	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0500 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 mg/kg mg/kg Analyst: RKS	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 12/04/23 ND 0.0500 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 96.1 % 70-130 12/04/23 12/04/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW36-2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		91.8 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2349008



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW37-2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		94.0 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2349008



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW38-2'

	Reporting				
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2349004
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0500	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
	95.4 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2349004
ND	20.0	1	12/04/23	12/04/23	
	94.2 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2349007
ND	25.0	1	12/04/23	12/04/23	
ND	50.0	1	12/04/23	12/04/23	
	93.6 %	50-200	12/04/23	12/04/23	
mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2349008
ND	20.0	1	12/04/23	12/05/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 95.4 % mg/kg MD 20.0 94.2 % mg/kg ND 25.0 ND 50.0 93.6 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Ar ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 Mg/kg mg/kg Ar ND 20.0 1 Mg/kg mg/kg Ar ND 25.0 1 ND 50.0 1 93.6 % 50-200 mg/kg mg/kg Ar	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0500 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/04/23 mg/kg mg/kg Analyst: KM ND 25.0 1 12/04/23 ND 50.0 1 12/04/23 ND 50.0 1 12/04/23 ND 50.0 1 12/04/23 ND 50.0 1 12/04/23 Mg/kg mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0500 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/04/23 12/04/23 mg/kg mg/kg Analyst: KM ND 25.0 1 12/04/23 12/04/23 ND 50.0 1 12/04/23 12/04/23 ND 50.0 1 12/04/23 12/04/23 ND 50.0 1 12/04/23 12/04/23 <



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW39-2'

	Reporting				
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2349004
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
ND	0.0500	1	12/04/23	12/04/23	
ND	0.0250	1	12/04/23	12/04/23	
	94.6 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2349004
ND	20.0	1	12/04/23	12/04/23	
	95.5 %	70-130	12/04/23	12/04/23	
mg/kg	mg/kg	Ana	alyst: KM		Batch: 2349007
ND	25.0	1	12/04/23	12/04/23	
ND	50.0	1	12/04/23	12/04/23	
	93.0 %	50-200	12/04/23	12/04/23	
mg/kg	93.0 % mg/kg		12/04/23 alyst: BA	12/04/23	Batch: 2349008
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 95.5 % mg/kg Mg/kg mg/kg ND 25.0	Result Limit Dilution mg/kg mg/kg And ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 94.6 % 70-130 mg/kg mg/kg And ND 20.0 1 mg/kg mg/kg And ND 25.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0250 1 12/04/23 ND 0.0500 1 12/04/23 ND 0.0250 1 12/04/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/04/23 mg/kg mg/kg Analyst: KM ND 25.0 1 12/04/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0500 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 ND 0.0250 1 12/04/23 12/04/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 12/04/23 12/04/23 mg/kg mg/kg Analyst: KM ND 25.0 1 12/04/23 12/04/23



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

SW40-2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2349004
Benzene	ND	0.0250	1	12/04/23	12/04/23	
Ethylbenzene	ND	0.0250	1	12/04/23	12/04/23	
Toluene	ND	0.0250	1	12/04/23	12/04/23	
o-Xylene	ND	0.0250	1	12/04/23	12/04/23	
p,m-Xylene	ND	0.0500	1	12/04/23	12/04/23	
Total Xylenes	ND	0.0250	1	12/04/23	12/04/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2349004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/23	12/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	12/04/23	12/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2349007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		93.1 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2349008
Chloride	ND	20.0	1	12/04/23	12/05/23	



		QC S	umma	ary Data	l							
Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount #1A 0046-0001	L				Reported:			
Artesia NM, 88210		Project Manager:	N	atalie Gladden					12/5/2023 1:21:12PM			
		Volatile O	rganics l	by EPA 802	1B				Analyst: RKS			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2349004-BLK1)							Prepared: 1	2/04/23 A	Analyzed: 12/04/23			
Benzene	ND	0.0250					-					
Ethylbenzene	ND	0.0250										
Toluene	ND	0.0250										
o-Xylene	ND	0.0250										
o,m-Xylene	ND	0.0500										
Total Xylenes	ND	0.0250										
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130						
LCS (2349004-BS1)							Prepared: 1	2/04/23 A	Analyzed: 12/04/23			
Benzene	4.88	0.0250	5.00		97.6	70-130						
thylbenzene	4.81	0.0250	5.00		96.2	70-130						
Coluene	4.88	0.0250	5.00		97.6	70-130						
-Xylene	4.84	0.0250	5.00		96.7	70-130						
o,m-Xylene	9.79	0.0500	10.0		97.9	70-130						
Total Xylenes	14.6	0.0250	15.0		97.5	70-130						
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130						
Matrix Spike (2349004-MS1)				Source: 1	E312002-	08	Prepared: 1	2/04/23 A	Analyzed: 12/04/23			
Benzene	4.96	0.0250	5.00	ND	99.2	54-133						
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133						
Toluene	4.95	0.0250	5.00	ND	99.1	61-130						
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131						
o,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131						
Total Xylenes	14.9	0.0250	15.0	ND	99.0	63-131						
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130						
Matrix Spike Dup (2349004-MSD1)				Source: 1	E312002-	08	Prepared: 1	2/04/23 A	Analyzed: 12/04/23			
Benzene	5.20	0.0250	5.00	ND	104	54-133	4.81	20				
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	4.99	20				
Toluene	5.20	0.0250	5.00	ND	104	61-130	4.79	20				
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	4.91	20				

0.0500

0.0250

10.0

15.0

8.00

ND

ND

105

104

63-131

63-131

70-130

5.34

5.20

20

20

10.5

15.6

7.71



p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	^
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1				12/5/2023 1:21:12PM
	Non	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
	mg/kg	g Kg	mg/kg	mg/kg	70	70	70	70	rvoics
Blank (2349004-BLK1)							Prepared: 1	12/04/23	Analyzed: 12/04/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			
LCS (2349004-BS2)							Prepared: 1	12/04/23	Analyzed: 12/04/23
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			
Matrix Spike (2349004-MS2)				Source:	E312002-	08	Prepared: 1	12/04/23	Analyzed: 12/04/23
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			
Matrix Spike Dup (2349004-MSD2)				Source:	E312002-	08	Prepared: 1	12/04/23	Analyzed: 12/04/23
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.4	70-130	4.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/5/2023 1:21:12PM

Artesia NM, 88210		Project Manager	r: Na	italie Gladder	1				12/5/2023 1:21:12PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2349007-BLK1)							Prepared: 1	2/04/23 A	nalyzed: 12/04/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.9		50.0		93.8	50-200			
LCS (2349007-BS1)							Prepared: 1	2/04/23 A	nalyzed: 12/04/23
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132			
urrogate: n-Nonane	45.2		50.0		90.3	50-200			
Matrix Spike (2349007-MS1)				Source:	E312001-0	03	Prepared: 1	2/04/23 A	nalyzed: 12/04/23
Diesel Range Organics (C10-C28)	264	25.0	250	ND	105	38-132			
urrogate: n-Nonane	48.7		50.0		97.4	50-200			
Matrix Spike Dup (2349007-MSD1)				Source:	E312001-0	03	Prepared: 1	2/04/23 A	nalyzed: 12/04/23
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132	2.90	20	
urrogate: n-Nonane	49.9		50.0		99.8	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount #1 <i>A</i>	Λ				Reported:
Artesia NM, 88210		Project Manager		atalie Gladden					12/5/2023 1:21:12PM
		Anions	by EPA 3	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	t
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2349008-BLK1)							Prepared:	12/04/23	Analyzed: 12/04/23
Chloride	ND	20.0							
LCS (2349008-BS1)							Prepared:	12/04/23	Analyzed: 12/04/23
Chloride	246	20.0	250		98.2	90-110			
Matrix Spike (2349008-MS1)				Source:	E312002-0)1	Prepared:	12/04/23	Analyzed: 12/04/23
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2349008-MSD1)				Source:	E312002-0	01	Prepared:	12/04/23	Analyzed: 12/04/23
Chloride	252	20.0	250	ND	101	80-120	0.472	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/05/23 13:21

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.



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Chain of Custody

Page __/_ of __2_

Received by OCD: 5/16/2025 12:00:30 AM

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Project:	LXS M	ount	PA			: ENERGY STAFFING S	ERVICES		NO#		1000		Number		1D	2D 3	D St	andard	CWA	SDWA
Project N	Nanager:				Address:	2724 NW COUNTY RD		E .3	1120	200	371	200	046-0	100		X		_		
Address:					City, State	e, Zip HOBBS, NM 883	240					Analy	sis and Me	thod						RCRA
City, Stat					Phone: 5	575-393-9048													21111	
Phone:					Email: N.	ATALIE@ENERGYSTAFFIN	IGLLC.COM	315	015										State	Land
Email:					BI	RITTNEY@ENERGYSTAFFI	NGLLC.COM	эу 8(oy 8(21	00	0	0.00		ΣN			NM CO	UT AZ	TX
Report d	ue by:							RO	RO	y 80	y 826	601	Je 30			¥		X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	BGDOC			Remarks	
	11/30/23	5	1	SW29	-2		1								X					
				Su 30			2								(
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				SW 31			8													
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	11/30/2	5	1	Sm 38			10								V	1				
Additio	nal Instru			Jun 30	5 6		110	1_	1			1		L	1/					
						mpering with or intentionally mis	labelling the samp	le locat	ion,									d on ice the day on subsequent d		led or received
		Control of the second	A	may be grounds for		Sampled by: PYO	Date (1-	Time	77-	27	_				ab Use				
Ande	hed by: (Sign	38		130/23	3201	and the Tain	KH2-1-	202	3/	30	02	Red	ceived on i	ce:)/ N				
Relinquis	hed by: (Sign hed by: (Sign	Proje)	L Dat	2.1.25	630 Rece	eived by: (Signature)	12·3	2.23	3 1	50	0	T1		_	<u>T2</u>			<u>T3</u>		
Relinquis	hed by: (Sign	ature)	Dat	2.2.23	27 m	eived by: (Signayure)	Date 14	1/23	3 Time	7	30		G Temp °C					1		
Sample M	atriv. S - Soil	Sd - Solid Se	- Sludge 4.	Agueous O - Other			Contain	er Typ	e:g-	glass	s, p - 1	poly/	plastic, ag -	amb	er gla	iss, v - \	/OA			
Note: Sa	moles are di	scarded 30	days after	results are reporte	d unless other arra	angements are made. Hazar	dous samples wi	II be re	eturne	d to d	lient o	or disp	posed of at th	ne clie	nt exp	pense.	The repo	ort for the an	alysis of the	e above
samples	is applicable	only to the	ose samples	received by the la	boratory with this	s COC. The liability of the labo	oratory is limited	to the	amou	int pa	id for	on the	e report.							



Page 2 of 2

Received by OCD: 5/16/2025 12:00:30 AM

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lient:/v	sest m	- nero	HA		Atto	ntion: ENERGY STAFFING S	ERVICES	Lab	WO#				Number	11	D 2			CWA	SDV
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mail:					Line	BRITTNEY@ENERGYSTAFFI	A STATE OF THE STA	80	80	п			0.0		-		NM CO	UT AZ	TX
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Time	Date		No of				Lab	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ БУ 8021	by 8	als 6	Chloride 300.0		верос	8		Remarks	
Sampled	Sampled	Matrix	Containers	Sample ID			Numbe	L DRO	GRC	BTE	VOC by 8260	Metals 6010	Chlc		BGC	BGDOC		Remarks	
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I, (field sam	pler), attest to	the validity	and authen	ticity of this sample. I	am aware	that tampering with or intentionally mis	labelling the san	ple loca	tion,								received on ice the day on 6 °C on subsequent o		oled or re
				may be grounds for le	gal action.	Sampled by: A MO	minge		-	1		Lecke	G III ICC EC BIT C	уВ сельр ос					,
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envirotech Inc.

Printed: 12/4/2023 8:11:29AM

Envirotech Analytical Laboratory

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.

Chain of C 1. Does the 2. Does the	Natalie@energystaffingllc.com	Date Logged In: Due Date:	12/04/23 0		Logged In By: Jordan Montano		
Chain of C 1. Does the 2. Does the		Due Date:	12/05/22 1				
1. Does the 2. Does the			12/03/23 1	7:00 (1 day TAT)			
2. Does the	Custody (COC)						
	e sample ID match the COC?		Yes				
3. Were san	2. Does the number of samples per sampling site location match the COC						
3. Were samples dropped off by client or carrier?			Yes	Carrier: C	<u>Courier</u>		
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?		No					
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.		Yes	,	Comments/Resolution			
	<u>rn Around Time (TAT)</u>				Time compled not provided on COC non		
6. Did the 0	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not provided on COC per		
Sample Co					client.		
	imple cooler received?		Yes				
•	as cooler received in good condition?		Yes		Project Manager not listed on COC.		
	sample(s) received intact, i.e., not broken?		Yes		Natalie Gladden.		
	ustody/security seals present?		No				
11. If yes, v	were custody/security seals intact?		NA				
	sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling isible ice, record the temperature. Actual sample to	received w/i 15	Yes C				
Sample Co			_				
	ueous VOC samples present?		No				
-	OC samples collected in VOA Vials?		NA				
	lead space less than 6-8 mm (pea sized or less)?		NA				
	rip blank (TB) included for VOC analyses?		NA				
	n-VOC samples collected in the correct containers?		Yes				
	opropriate volume/weight or number of sample containe	rs collected?	Yes				
Field Labe	•						
20. Were fi	eld sample labels filled out with the minimum infor	mation:					
Sar	mple ID?		Yes				
	te/Time Collected?		No	'			
	llectors name?		No				
Sample Pro			N				
	ne COC or field labels indicate the samples were pre	servea?	No				
	nple(s) correctly preserved? ilteration required and/or requested for dissolved me	tolo?	NA N-				
	•	tais:	No				
	e Sample Matrix	0					
	ne sample have more than one phase, i.e., multiphase		No				
21. If yes, o	does the COC specify which phase(s) is to be analyz	ea?	NA				
	ct Laboratory						
	nples required to get sent to a subcontract laboratory subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	v NA		
		,		Subcontract Eac	,, 141		
Client Ins	struction						
<u> </u>							

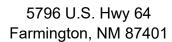
Date

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

Report to:

Natalie Gladden





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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E312018

Job Number: 20046-0001

Received: 12/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/6/23

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: 12/6/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E312018

Date Received: 12/5/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2023 7:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Sample Summary

Mack Energy	Project Name: West Mount #1A		Reported:	
7 W. Compress Road	Project Number:	20046-0001	Keporteu.	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 16:36	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW41-2'	E312018-01A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW42-2'	E312018-02A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW43-3'	E312018-03A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW44-2'	E312018-04A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW45-2'	E312018-05A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW46-3'	E312018-06A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW47-3'	E312018-07A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW48-3'	E312018-08A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW49-4'	E312018-09A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW50-4'	E312018-10A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW41-2' E312018-01

		E312010-01					
Analyte	Result	Reporting Limit	Dib	ution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dill	шиоп	Frepared	Anaryzeu	rvotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2349032
Benzene	ND	0.0250		1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250		1	12/05/23	12/05/23	
Toluene	ND	0.0250		1	12/05/23	12/05/23	
o-Xylene	ND	0.0250		1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500		1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250		1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		99.8 %	70-130		12/05/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/05/23	12/05/23	
Surrogate: Toluene-d8		93.7 %	70-130		12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		99.8 %	70-130		12/05/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		12/05/23	12/05/23	
Surrogate: Toluene-d8		93.7 %	70-130		12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0	_	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0		1	12/05/23	12/06/23	
Surrogate: n-Nonane		92.9 %	50-200		12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2349050
Chloride	ND	20.0		1	12/05/23	12/05/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW42-2'

E312018-02

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2349032
Benzene	ND	0.0250		1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250		1	12/05/23	12/05/23	
Toluene	ND	0.0250		1	12/05/23	12/05/23	
o-Xylene	ND	0.0250		1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500		1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	·	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130		12/05/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		12/05/23	12/05/23	
Surrogate: Toluene-d8		94.1 %	70-130		12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130		12/05/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		12/05/23	12/05/23	
Surrogate: Toluene-d8		94.1 %	70-130		12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0		1	12/05/23	12/06/23	_
Oil Range Organics (C28-C36)	ND	50.0		1	12/05/23	12/06/23	
Surrogate: n-Nonane		89.0 %	50-200		12/05/23	12/06/23	
Amiona by EDA 200 0/0056 A	mg/kg	mg/kg		Analyst:	BA		Batch: 2349050
Anions by EPA 300.0/9056A		0 0					



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW43-3'

E312018-03 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: RKS Batch: 2349032 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 12/05/23 12/06/23 ND 0.0250 Benzene 1 12/05/23 12/06/23 Ethylbenzene ND 0.0250ND 0.0250 1 12/05/23 12/06/23 Toluene 1 12/05/23 12/06/23 o-Xylene ND 0.025012/05/23 12/06/23 ND 0.0500 1 p,m-Xylene 12/05/23 12/06/23 1 Total Xylenes ND 0.0250 99.9 % 12/05/23 12/06/23 Surrogate: Bromofluorobenzene 70-130 Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 12/05/23 12/06/23 Surrogate: Toluene-d8 94.9 % 70-130 12/05/23 12/06/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: RKS Batch: 2349032 ND 1 12/05/23 12/06/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 99.9 % 12/05/23 12/06/23 70-130 12/06/23 Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 12/05/23 Surrogate: Toluene-d8 94.9 % 12/05/23 12/06/23 70-130 mg/kg Analyst: JL Batch: 2349042 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 12/05/23 12/06/23 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 1 12/05/23 12/06/23 Oil Range Organics (C28-C36) 90.4 % 50-200 12/05/23 12/06/23 Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: BA Batch: 2349050

20.0

ND

1

12/05/23

12/05/23



Chloride

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW44-2'

E312018-04 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: RKS Batch: 2349032 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 12/05/23 12/06/23 ND 0.0250 Benzene 1 12/05/23 12/06/23 Ethylbenzene ND 0.0250ND 0.0250 12/05/23 12/06/23 Toluene 1 12/05/23 12/06/23 o-Xylene ND 0.025012/05/23 12/06/23 ND 0.0500 1 p,m-Xylene 12/05/23 12/06/23 1 Total Xylenes ND 0.0250 12/05/23 12/06/23 Surrogate: Bromofluorobenzene 99.6 % 70-130 Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 12/05/23 12/06/23 Surrogate: Toluene-d8 95.1 % 70-130 12/05/23 12/06/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: RKS Batch: 2349032 ND 1 12/05/23 12/06/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 99.6 % 12/05/23 12/06/23 70-130 101 % 12/06/23 Surrogate: 1,2-Dichloroethane-d4 70-130 12/05/23 Surrogate: Toluene-d8 12/05/23 12/06/23 95.1 % 70-130 mg/kg Analyst: JL Batch: 2349042 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 12/05/23 12/06/23 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 1 12/05/23 12/06/23 Oil Range Organics (C28-C36) 91.5 % 50-200 12/05/23 12/06/23 Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: BA Batch: 2349050

20.0

ND

1

12/05/23

12/05/23



Chloride

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW45-2'

E31201	8-05
LUILUI	0 00

	Reporting						
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2349032
Benzene	ND	0.0250		1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250		1	12/05/23	12/06/23	
Toluene	ND	0.0250		1	12/05/23	12/06/23	
o-Xylene	ND	0.0250		1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500		1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250		1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		98.6 %	70-130		12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		12/05/23	12/06/23	
Surrogate: Toluene-d8		95.3 %	70-130		12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		98.6 %	70-130		12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		12/05/23	12/06/23	
Surrogate: Toluene-d8		95.3 %	70-130		12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0		1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0		1	12/05/23	12/06/23	
Surrogate: n-Nonane		91.8 %	50-200		12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2349050

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW46-3'

		E312018-06						
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2349032		
Benzene	ND	0.0250	1	12/05/23	12/06/23			
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23			
Toluene	ND	0.0250	1	12/05/23	12/06/23			
o-Xylene	ND	0.0250	1	12/05/23	12/06/23			
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23			
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23			
Surrogate: Bromofluorobenzene		99.3 %	70-130	12/05/23	12/06/23			
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	12/05/23	12/06/23			
Surrogate: Toluene-d8		94.2 %	70-130	12/05/23	12/06/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2349032		
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23			
Surrogate: Bromofluorobenzene		99.3 %	70-130	12/05/23	12/06/23			
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	12/05/23	12/06/23			
Surrogate: Toluene-d8		94.2 %	70-130	12/05/23	12/06/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2349042		
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23			
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23			
Surrogate: n-Nonane		92.3 %	50-200	12/05/23	12/06/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2349050		
-	ND							



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW47-3'

		E312018-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2349032
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		98.9 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		94.9 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		98.9 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		94.9 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane	·	91.4 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2349050
Chloride	ND	200	10	12/05/23	12/06/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW48-3'

E31		

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2349032
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		99.0 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		95.1 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		99.0 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		95.1 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane		91.8 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2349050
Allions by ETA 500.0/3030A						



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW49-4' E312018-09

Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2349032
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		94.9 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		94.9 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane		92.1 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	.nalyst: BA		Batch: 2349050
Chloride	ND	200	10	12/05/23	12/06/23	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

SW50-4' E312018-10

		2012010 10				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Allalyte				1	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2349032
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		95.1 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2349032
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130	12/05/23	12/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	12/05/23	12/06/23	
Surrogate: Toluene-d8		95.1 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2349042
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane		90.4 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2349050
Chloride	ND	200	10	12/05/23	12/06/23	



QC Summary Data

West Mount #1A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 12/6/2023 4:36:16PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2349032-BLK1) Prepared: 12/05/23 Analyzed: 12/05/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.492 0.500 98.3 70-130 Surrogate: 1,2-Dichloroethane-d4 0.509 0.500 102 70-130 0.500 94.0 70-130 Surrogate: Toluene-d8 0.470 LCS (2349032-BS1) Prepared: 12/05/23 Analyzed: 12/05/23 2.60 0.0250 2.50 104 70-130 Benzene 2.48 2.50 99.2 70-130 Ethylbenzene 0.0250 2.46 0.0250 2.50 98.2 70-130 70-130 2.52 0.0250 2.50 101 o-Xylene 98.2 4.91 5.00 70-130 p,m-Xylene 0.0500 7.43 0.0250 7.50 99.1 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.502 0.500 100 70-130 0.500 104 70-130 Surrogate: 1,2-Dichloroethane-d4 0.518 70-130 Surrogate: Toluene-d8 0.473 0.500 Matrix Spike (2349032-MS1) Source: E312018-01 Prepared: 12/05/23 Analyzed: 12/05/23 48-131 2.56 0.0250 2.50 ND 102 45-135 Ethylbenzene 2.42 0.0250 2.50 ND 96.6 48-130 Toluene 2.39 0.0250 2.50 ND 95.6 2.51 0.0250 2.50 ND 100 43-135 o-Xylene 4.89 ND 97.7 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 7.40 0.0250 7.50 ND 98.6 43-135 102 Surrogate: Bromofluorobenzene 0.508 0.500 70-130 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.506 0.500 70-130 0.472 Surrogate: Toluene-d8 Matrix Spike Dup (2349032-MSD1) Source: E312018-01 Prepared: 12/05/23 Analyzed: 12/05/23 2.55 0.0250 2.50 ND 102 48-131 0.274 23 2.43 0.0250 2.50 ND 97.1 45-135 0.516 27 Ethylbenzene ND 95.8 48-130 0.251 24 2.40 2.50 Toluene 0.0250 o-Xylene 2.45 0.0250 2.50 ND 98.1 43-135 2.32 27 5.00 ND 95.3 43-135 27 4.76 2.51 p,m-Xylene 0.0500 27 7.22 0.0250 7.50 ND 96.2 43-135 2.44 Total Xylenes Surrogate: Bromofluorobenzene 0.494 0.500 98.7 70-130



0.500

0.500

0.508

0.469

102

93.7

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

QC Summary Data

Mack EnergyProject Name:West Mount #1AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden12/6/2023 4:36:16PM

Nonhalogenated Organics by EPA 8015D - GRO								A	nalyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2349032-BLK1)							Prepared: 1	2/05/23 Analy	zed: 12/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.470		0.500		94.0	70-130			
LCS (2349032-BS2)							Prepared: 1	2/05/23 Analy	zed: 12/05/23
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.5	70-130			

Matrix Spike (2349032-MS2)				Source:	E312018-	01	Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	83.0	70-130	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130	
Surrogate: Toluene_d8	0.479		0.500		95.7	70-130	

0.500

0.500

0.500

0.494

0.507

0.473

70-130

70-130

70-130

98.8

101

94.6

Matrix Spike Dup (2349032-MSD2)				Source:	E312018-0)1	Prepared: 12	2/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.5	70-130	0.605	20
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130		
Surrogate: Toluene-d8	0.475		0.500		94.9	70-130		

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:36:16PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1				12/6/2023 4:36:16PM
Nonhalogenated Organics by EPA 8015D - DRO/ORO									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2349042-BLK1)							Prepared:	12/05/23	Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	50-200			
LCS (2349042-BS1)							Prepared:	12/05/23	Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	228	25.0	250		91.2	38-132			
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			
Matrix Spike (2349042-MS1)				Source:	E312016-0	04	Prepared:	12/05/23	Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			
Matrix Spike Dup (2349042-MSD1)				Source:	E312016-	04	Prepared:	12/05/23	Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	0.695	20	
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount #1 <i>A</i> 0046-0001					Reporte	ed:
Artesia NM, 88210		Project Manager:	: N	atalie Gladden					12/6/2023 4:3	36:16PM
		Anions	by EPA 3	300.0/9056A	L .				Analyst: B	A
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Not	es
Blank (2349050-BLK1)							Prepared:	12/05/23	Analyzed: 12/0	05/23
Chloride	ND	20.0								
LCS (2349050-BS1)							Prepared:	12/05/23	Analyzed: 12/0	5/23
Chloride	253	20.0	250		101	90-110				
Matrix Spike (2349050-MS1)				Source: 1	E312016-0)1	Prepared:	12/05/23	Analyzed: 12/0	5/23
Chloride	275	20.0	250	ND	110	80-120				
Matrix Spike Dup (2349050-MSD1)				Source: 1	E 312016 -0)1	Prepared:	12/05/23	Analyzed: 12/0	5/23
Chloride	282	20.0	250	ND	113	80-120	2.35	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 16:36

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.



eject Information	Chain of Custody

	224	2 - 2 /		1	1	Bill To	127		La	b Use	Only	į.	- 15.1			TA			rogran
ent: M oiect: /	Nest M	10Un+	#1A		Attention: E	ERGY STAFFING SERVICES		WO# 317	101	摄		umbe		1D	2D X	3D	Standard	CWA	SDW
oject N	lanager:				Address: 27	NW COUNTY RD HOBBS, NM 88240	E	510	810	1			OOC Metho				a com	ia)	RCR
idress: ty, Stat					Phone: 575						Ī							No.	
ione:	C, CIP				Email: NATA	IE@ENERGYSTAFFINGLLC.COM	015	015									NINALC	State O UT A	TITY
nail:					BRIT	NEY@ENERGYSTAFFINGLLC.COM	by 8	by 8	021	097	010	300.0		N.	X1		10101	O OI AZ	- 11
eport d	ue by:			1	Ba	Mab	ORO/ORO by 8015	GRO/DRO by 8015	by 8	VOC by 8260	Metals 6010	Chloride 300.0		200	20			Remark	-
Time ampled	Date Sampled	Matrix	No. of Containers	Sample ID		Numbe	DRO,	GRO,	BTEX by 8021	VOC	Met	Cho		BGDOC	BGDOC		-	nemark	3
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ldditio	nal Instru	ctions:	1																
(field sar	mpler), attest	to the validit	y and authe	enticity of this sample.	am aware that tampe	ig with or intentionally mislabelling the sampled by: 501	mple loc	ztion,			Sample	es requir d in ice a	ing therma t an avg te	el présen mp abov	ration m e 0 but l	ess than	ceived on ice the 6 °C on subseque	day they are sar nt days.	npled or re
Relinquis	hed by: (Sign	nature)	Da	d may be grounds for little 2 101/23	Receive	by: (Signature) Date 12	1-23	Tim	315		Rec	eived	on ice		y) / I	lse Or	ily		
	hed by: (Sign		Q.	te Time		by: (Signature) Date	24.1	Tim	163		T1			T2			<u>T3</u>		

Printed: 12/5/2023 9:38:13AM

Envirotech Analytical Laboratory

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.

	or response concerning waste remaining a remaining a remaining a remaining area.		· ·	•	J 1		
Client:	Mack Energy	Date Received:	12/05/23 07	:30		Work Order ID:	E312018
Phone:	(575) 390-6397	Date Logged In:	12/04/23 15	:17		Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	12/06/23 17	2:00 (1 day TAT)			
Chain of	Custody (COC)						
	e sample ID match the COC?		Yes				
	e number of samples per sampling site location mat	ch the COC	Yes				
	imples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No	Carrier. <u>c</u>	<u> </u>		
	I samples received within holding time?	nea anary ses.	Yes				
5	Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		100			Comments	s/Resolution
Sample T	urn Around Time (TAT)				_		
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project mar	nager and tim	ne sampled are not
Sample C	<u>ooler</u>				documented	d on COC by	client.
7. Was a s	ample cooler received?		Yes				
8. If yes, v	vas 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				
	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature. 4 (<u>~</u>				
Sample C			No				
	queous VOC samples present? OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
			NA NA				
	trip blank (TB) included for VOC analyses?)					
	on-VOC samples collected in the correct containers; ppropriate volume/weight or number of sample contain		Yes Yes				
Field Lab	•	iers confected?	165				
	rield sample labels filled out with the minimum info	rmation:					
	imple ID?	Timution.	Yes				
D	ate/Time Collected?		No				
C	ollectors name?		No				
	<u>reservation</u>						
21. Does t	he COC or field labels indicate the samples were pr	eserved?	No				
	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	netals?	No				
Multipha	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	mples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and if	•		Subcontract Lab	o: NA		
	struction						
Chent III	struction_						

MACK ENERGY: WEST MOUNT #1A
INITIAL AND DELINEATION SITE PHOTOS































































































FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 359106

From Natalie Gladden <natalie@energystaffingllc.com>

Date Thu 1/30/2025 11:30 AM

To Brittney Corral <bri>hrittney@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: <u>natalie@energystaffingllc.com</u>



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

Sent: Thursday, June 27, 2024 8:45 AM

To: Natalie Gladden <natalie@energystaffingllc.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 359106

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#) nAPP2327753701.

The sampling event is expected to take place:

When: 06/29/2024 @ 07:00

Where: D-36-15S-28E 0 FNL 0 FEL (32.97852,-104.09253)

Additional Information: CONTACT NATALIE GLADDEN 5753906397

Additional Instructions: 32.978520 -104.092530

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 Name: WEST MOUNT #1A

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
COMP1	4	240	L	ND	ND	ND	ND	ND	ND
COMP2	6	240	L	ND	ND	ND	ND	ND	ND
СОМР3	8	160	L	ND	ND	ND	ND	ND	ND
COMP4	8	240	L	ND	ND	ND	ND	ND	ND
COMP5	10	240		ND	ND	ND	ND	ND	ND
COMPS	10	240	L	ND	NU	ND	ND	NU	ND
COMP6	4	320	L	ND	ND	ND	ND	ND	ND
CONTO	'	320		140	110	110	140	110	IVE
СОМР7	8	80	L	ND	ND	ND	ND	ND	29.8
COMP8	8	80	L	ND	ND	ND	ND	ND	32.6
СОМР9	10	240	L	ND	ND	ND	ND	ND	101
COMP10	10	320	L	ND	ND	ND	ND	ND	241
COMP11	10	400	L	ND	ND	ND	ND	ND	ND
COMP12	10	320	L	ND	ND	ND	ND	ND	ND
COMP12	10	320	L	IND	ND	ND	ND	ND	ND
COMP13	10	480	L	ND	ND	ND	ND	ND	332
COIVII 13	10	100		140	110	110	140	110	332
COMP14	10	320	L	ND	ND	ND	ND	ND	ND
COMP15	6	320	L	ND	ND	ND	ND	ND	ND
COMP16	4	400	L	ND	ND	ND	ND	ND	250
COMP17	4	240	L	ND	ND	ND	ND	ND	ND
6014046		222		115	ND	ALD.	ALD.	A15	415
COMP18	4	320	L	ND	ND	ND	ND	ND	ND
COMP19	4	400	L	ND	ND	ND	ND	ND	437
COMPTS	4	400	<u> </u>	IND	ואט	IND	IND	IND	43/
COMP20	4	240	L	ND	ND	ND	ND	ND	ND
55.7.1.25	,	0	_						
COMP21	8	80	L	ND	ND	ND	ND	ND	58
COMP22	4	400	L	ND	ND	ND	ND	ND	364

COMP23	4	320	L	ND	ND	ND	ND	ND	ND
COMP24	10	240	L	ND	ND	ND	ND	ND	ND
COMP25	10	160	L	ND	ND	ND	ND	ND	ND
COMP26	10	160	L	ND	ND	ND	ND	ND	ND
COMP27	8	240	L	ND	ND	ND	ND	ND	ND
COMP28	6	240	L	ND	ND	ND	ND	ND	ND
COMP29	6	240	L	ND	ND	ND	ND	ND	ND
COMP30	6	320	L	ND	ND	ND	ND	ND	ND
COMP31	4	400	L	ND	ND	ND	ND	ND	211
COMP32	4	320	L	ND	ND	ND	ND	ND	ND
COMP33	4	240	L	ND	ND	ND	ND	ND	ND
COMP34	4	320	L	ND	ND	ND	ND	ND	ND
COMP35	8	240	L	ND	ND	ND	ND	ND	ND
COMP36	8	400	L	ND	ND	ND	ND	ND	277
COMP37	8	160	L	ND	ND	ND	ND	ND	ND
COMP38	8	160	L	ND	ND	ND	ND	ND	ND
COMP39	8	160	L	ND	ND	ND	ND	ND	ND
COMP40	8	240	L	ND	ND	ND	ND	ND	ND
COMP41	4	160	L	ND	ND	ND	ND	ND	ND
COMP42	4	160	L	ND	ND	ND	ND	ND	ND
COMP43	4	240	L	ND	ND	ND	ND	ND	ND
COMP44	4	160	L	ND	ND	ND	ND	ND	ND
COMP45	4	160	L	ND	ND	ND	ND	ND	ND
COMP43	7	100	L	IND	IND	IND	IND	IND	IND

COMP46	4	160	L	ND	ND	ND	ND	ND	ND
COMP47	4	240	L	ND	ND	ND	ND	ND	ND
COMP48	4	160	L	ND	ND	ND	ND	ND	ND
COMP49	4	160	L	ND	ND	ND	ND	ND	ND
COMP50	4	160	L	ND	ND	ND	ND	ND	ND
COMP51	4	160	L	ND	ND	ND	ND	ND	ND
COMP52	4			ND	ND		ND		ND
COMP32	4	160	L	ND	ND	ND	ND	ND	ND
COMP53	4	160	L	ND	ND	ND	ND	ND	ND
COMP54	4	160	L	ND	ND	ND	ND	ND	ND
COMP55	4	80	L	ND	ND	ND	ND	ND	ND
COMP56	4	160	L	ND	ND	ND	ND	ND	ND
COMP57	4	160	L	ND	ND	ND	ND	ND	ND
COMP58	4	160	L	ND	ND	ND	ND	ND	ND
COMP59	4	240	L	ND	ND	ND	ND	ND	ND
		2.0	_	1,10	.,,5	110	1,10	110	1,12
COMP60	4	160	L	ND	ND	ND	ND	ND	ND
COMP61	4	80	L	ND	ND	ND	ND	ND	ND
COMP62	4	160	L	ND	ND	ND	ND	ND	ND
COMP63	4	80	L	ND	ND	ND	ND	ND	ND
COMP64	4	160	L	ND	ND	ND	ND	ND	ND
COMP65	4	160	L	ND	ND	ND	ND	ND	ND
COMP66	4	240	L	ND	ND	ND	ND	ND	157
COMP67	4	160	L	ND	ND	ND	ND	ND	ND
COMP68	4	160	L	ND	ND	ND	ND	ND	25.7
COMP69	4	160	L	ND	ND	ND	ND	ND	ND

COMP70	4	320	L	ND	ND	ND	ND	ND	193
COMP71	4	240	L	ND	ND	ND	ND	ND	ND
COMP72	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP1	8	160	L	ND	ND	ND	ND	ND	ND
SWCOMP2	8	320	L	ND	ND	ND	ND	ND	ND
SWCOMP3	8	320	L	ND	ND	ND	ND	ND	131
SWCOMP4	10	240	L	ND	ND	ND	ND	ND	ND
SWCOMP5	6	240	L	ND	ND	ND	ND	ND	ND
SWCOMP6	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP7	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP8	8	240	L	ND	ND	ND	ND	ND	ND
SWCOMP9	6	240	L	ND	ND	ND	ND	ND	ND
	4								
SWCOMP10	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP11	4	160	L	ND	ND	ND	ND	ND	23
SWCOMP12	4	320	L	ND	ND	ND	ND	ND	182
SWCOMP13	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP14	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP15	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP16	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP17	4	320	L	ND	ND	ND	ND	ND	202
SWCOMP18	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP19	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP20	4	160	L	ND	ND	ND	ND	ND	ND
211 33 20	·		_						

SWCOMP21	4	320	L	ND	ND	ND	ND	ND	174
SWCOMP22	4	240	L	ND	ND	ND	ND	ND	ND
	_								
SWCOMP23	4	160	L	ND	ND	ND	ND	ND	ND
CIA/CONADOA	4	160		ND	ND	ND	ND	ND	ND
SWCOMP24	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP25	4	320	L	ND	ND	ND	ND	ND	198
SWCOIVII 25		320	_	ND	ND	ND	ND	ND	130
SWCOMP26	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP27	4	320	L	ND	ND	ND	ND	ND	166
SWCOMP28	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP29	4	240	L	ND	ND	ND	ND	ND	ND
SWCOMP30	4	160	L	ND	ND	ND	ND	ND	26.4
CIA/CONAD24	4	160		ND	ND	ND	ND	ND	ND
SWCOMP31	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP32	4	320	L	ND	ND	ND	ND	ND	173
317 651711 52	·	320	_	140	145	140	110	110	1,0
SWCOMP33	4	320	L	ND	ND	ND	ND	ND	174
SWCOMP34	4	160	L	ND	ND	ND	ND	ND	25.9
SWCOMP35	4	160	L	ND	ND	ND	ND	ND	ND
SWCOMP36	4	240	L	ND	ND	ND	ND	ND	ND









COMPANY: MACK ENERGY LOCATION: WEST MOUNT #1A

POINT	LATITUDE	LONGITUDE		
C1	32.977514°	-104.094282°		
C2	32.977551°	-104.094284°		
C3	32.977581°	-104.094278°		
C4	32.977610°	-104.094271°		
C5	32.977637°	-104.094257°		
C6	32.977664°	-104.094242°		
C7	32.977698°	-104.094225°		
C8	32.977730°	-104.094212°		
C9	32.977757°	-104.094198°		
C10	-104.094198°	-104.094179°		
C11	32.977808°	-104.094160°		
C12	32.977833°	-104.094135°		
C13	32.977858°	-104.094101°		
C14	32.977880°	-104.094072°		
C15	32.977898°	-104.094041°		
C16	32.977917°	-104.094014°		
C17	32.977945°	-104.094001°		
C18	32.977943°	-104.093964°		
C19	32.977976°	-104.093948°		
C20	32.977996°	-104.093923°		
C21	32.978029°	-104.093930°		
C22	32.978026°	-104.093890°		
C23	32.978025°	-104.093851°		
C24	32.978025°	-104.093814°		
C25	32.978054°	-104.093801°		
C26	32.978059°	-104.093858°		
C27	32.978068°	-104.093906°		
C28	32.978104°	-104.093882°		
C29	32.978099°	-104.093850°		
C30	32.978099°	-104.093820°		
C31	32.978097°	-104.093790°		
C32	32.978095°	-104.093762°		
C33	32.978145°	-104.093772°		
C34	32.978148°	-104.093812°		
C35	32.978156°	-104.093846°		
C36	32.978185°	-104.093803°		
C37	32.978185°	-104.093760°		
C38	32.978229°	-104.093819°		
C39	32.978223°	-104.093776°		
C40	32.978227°	-104.093738°		
C41	32.978239°	-104.093701°		

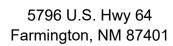
C42	32.978300°	-104.093638°	
C43	32.978382°	-104.093574°	
C44	32.978469°	-104.093560°	
C45	32.978521°	-104.093527°	
C46	32.978592°	-104.093479°	
C47	32.978643°	-104.093451°	
C48	32.978687°	-104.093402°	
C49	32.978712°	-104.093350°	
C50	32.978732°	-104.093312°	
C51	32.978554°	-104.093493°	
C52	32.978520°	-104.093481°	
C53	32.978547°	-104.093449°	
C54	32.978519°	-104.093411°	
C55	32.978543°	-104.093390°	
C56	32.978543°	-104.093344°	
C57	32.978543°	-104.093304°	
C58	32.978541°	-104.093262°	
C59	32.978541°	-104.093222°	
C60	32.978538°	-104.093179°	
C61	32.978537°	-104.093131°	
C62	32.978536°	-104.093083°	
C63	32.978534°	-104.093041°	
C64	32.978536°	-104.093007°	
C65	32.978537°	-104.092975°	
C66	32.978537°	-104.092942°	
C67	32.978534°	-104.092894°	
C68	32.978527°	-104.092836°	
C69	32.978527°	-104.092789°	
C70	32.978525°	-104.092741°	
C71	32.978528°	-104.092697°	
C72	32.978531°	-104.092650°	
SWC1	32.978538°	-104.092619°	
SWC2	32.978510°	-104.092838°	
SWC3	32.978505°	-104.093005°	
SWC4	32.978516°	-104.093197°	
SWC5	32.978512°	-104.093398°	
SWC6	32.978478°	-104.093545°	
SWC7	32.978375°	-104.093549°	
SWC8	32.978289°	-104.093641°	
SWC9	32.978214°	-104.093719°	
SWC10	32.978156°	-104.093749°	
SWC11	32.978071°	-104.093752°	
SWC12	32.978008°	-104.093802°	
SWC13	32.977963°	-104.093918°	
		•	

SWC14	32.977888°	-104.094020°	
SWC15	32.977816°	-104.094119°	
SWC16	32.977680°	-104.094207°	
SWC17	32.977576°	-104.094249°	
SWC18	32.977491°	-104.094283°	
SWC19	32.977586°	-104.094310°	
SWC20	32.977682°	-104.094259°	
SWC21	32.977814°	-104.094188°	
SWC22	32.977894°	-104.094098°	
SWC23	32.977980°	-104.093991°	
SWC24	32.978083°	-104.093914°	
SWC25	32.978173°	-104.093853°	
SWC26	32.978256°	-104.093839°	
SWC27	32.978265°	-104.093722°	
SWC28	32.978334°	-104.093608°	
SWC29	32.978486°	-104.093572°	
SWC30	32.978605°	-104.093495°	
SWC31	32.978709°	-104.093400°	
SWC32	32.978752°	-104.093292°	
SWC33	32.978571°	-104.093455°	
SWC34	32.978561°	-104.093200°	
SWC35	32.978571°	-104.092988°	
SWC36	32.978541°	-104.092778°	

Report to:

Natalie Gladden





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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407034

Job Number: 20046-0001

Received: 7/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/24

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: 7/10/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407034

Date Received: 7/9/2024 11:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/9/2024 11:20:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 13:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 1-4'	E407034-01A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 2-6'	E407034-02A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 3-4'	E407034-03A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 4-8'	E407034-04A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 5-4'	E407034-05A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 6-4'	E407034-06A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 7-8'	E407034-07A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 8-8'	E407034-08A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 9-8'	E407034-09A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 10-8'	E407034-10A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 11-6'	E407034-11A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 12-4'	E407034-12A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 13-4'	E407034-13A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 14-4'	E407034-14A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 15-8'	E407034-15A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 16-4'	E407034-16A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 17-4'	E407034-17A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 18-4'	E407034-18A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 19-4'	E407034-19A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 20-4'	E407034-20A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 1-4'

		E407034-01				
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		86.5 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		111 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 2-6' E407034-02

		E40/034-02				
Austra	Result	Reporting Limit	Dilution	D	A lama d	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		87.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		106 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 3-4' E407034-03

		E40/034-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilution	Frepareu	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		87.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		83.6 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 4-8' E407034-04

repared 7/09/24	Analyzed	Notes
7/09/24	· · · · · · · · · · · · · · · · · · ·	
7/09/24		Batch: 2428030
1/03/24	07/09/24	
7/09/24	07/09/24	
7/09/24	07/09/24	
7/09/24	07/09/24	
7/09/24	07/09/24	
7/09/24	07/09/24	
7/09/24	07/09/24	
		Batch: 2428030
7/09/24	07/09/24	
7/09/24	07/09/24	
		Batch: 2428019
7/09/24	07/09/24	
7/09/24	07/09/24	
7/09/24	07/09/24	
		Batch: 2428022
7/09/24	07/09/24	
	17/09/24 17/09/24 17/09/24 17/09/24 17/09/24 17/09/24 17/09/24 17/09/24 17/09/24 17/09/24	07/09/24 07/09/24 07/09/24 07/09/24



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 5-4' E407034-05

		E40/034-05				
Aughte	Result	Reporting Limit	Dilution	Duomonod	A walviza J	Notes
Analyte	Resuit	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		89.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		103 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 6-4' E407034-06

		E40/034-06				
Analysis	Result	Reporting Limit	Dilution	Dungan J	Auglana I	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		109 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 7-8' E407034-07

		E40/034-07				
	D. I.	Reporting		D 1		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		89.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: BA			Batch: 2428030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		110 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2428022
Chloride	29.8	20.0	1	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 8-8' E407034-08

		£40/034-08				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Терагец	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		117 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2428022
Chloride	32.6	20.0	1	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 9-8' E407034-09

		E40/034-09				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Терагец	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		110 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2428022
Chloride	101	100	5	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 10-8' E407034-10

Result	Reporting				
	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2428030
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0500	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
	90.0 %	70-130	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2428030
ND	20.0	1	07/09/24	07/09/24	
	95.2 %	70-130	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	Analyst: KM		Batch: 2428019
ND	25.0	1	07/09/24	07/09/24	
ND	50.0	1	07/09/24	07/09/24	
	115 %	50-200	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
241	200	10	07/09/24	07/09/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 95.2 % mg/kg ND 25.0 ND 50.0 115 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 90.0 % 70-130 mg/kg mg/kg Analy ND 20.0 1 95.2 % 70-130 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 115 % 50-200 mg/kg Mg/kg Analy	mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 MD 0.0250 1 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 ND 25.0 1 07/09/24 ND 50.0 1 07/09/24 mg/kg mg/kg Analyst: KM	mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 07/09/24 ND 0.0500 1 07/09/24 07/09/24 ND 0.0250 1 07/09/24 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 07/09/24 ND 25.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24 07/09/24 ND 50.0 0 07/09/24 07/09/24 ND 50.0 0 07/09/24 07/09/24 ND



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 11-6' E407034-11

	210700111				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	kg Analyst: BA		<u> </u>	Batch: 2428030
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
ND	0.0500	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
	89.9 %	70-130	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2428030
ND	20.0	1	07/09/24	07/09/24	
	93.8 %	70-130	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
ND	25.0	1	07/09/24	07/09/24	
ND	50.0	1	07/09/24	07/09/24	
	115 %	50-200	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	vst: DT		Batch: 2428022
ND	200	10	07/09/24	07/09/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 89.9 % mg/kg mg/kg mg/kg ND 20.0 93.8 % mg/kg ND 25.0 ND 50.0 115 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 89.9 % 70-130 mg/kg mg/kg Analy ND 20.0 1 93.8 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 115 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: BA ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 ND 25.0 1 07/09/24 ND 50.0 1 07/09/24 ND 50.0 1 07/09/24 Mg/kg Mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 07/09/24 ND 0.0500 1 07/09/24 07/09/24 ND 0.0250 1 07/09/24 07/09/24 MD 0.0250 1 07/09/24 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 12-4' E407034-12

		E40/034-12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Alialyte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		88.4 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Analyst: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		105 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 13-4'

		E407034-13				
Anglista	Result	Reporting Limit	Dilution	Duomonod	Analyzed	Notes
Analyte	Result	Limit	Dilution	Prepared	Anaiyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		107 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2428022
Chloride	332	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 14-4' E407034-14

		E40/034-14				
Acates	D14	Reporting		D	A a laa d	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		110 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 15-8' E407034-15

	E40/034-13				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mo/ko	mo/ko	Analy	•		Batch: 2428030
		1		07/09/24	Batch: 2 120030
		1			
		1	07/09/24	07/09/24	
ND		1	07/09/24	07/09/24	
ND	0.0500	1	07/09/24	07/09/24	
ND	0.0250	1	07/09/24	07/09/24	
	89.8 %	70-130	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	rst: BA		Batch: 2428030
ND	20.0	1	07/09/24	07/09/24	
	95.0 %	70-130	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
ND	25.0	1	07/09/24	07/09/24	
ND	50.0	1	07/09/24	07/09/24	
	109 %	50-200	07/09/24	07/09/24	
mg/kg	mg/kg	Analy	rst: DT		Batch: 2428022
ND	200	10	07/09/24	07/09/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 89.8 % mg/kg mg/kg mg/kg ND 20.0 95.0 % mg/kg ND 25.0 ND 50.0 109 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 89.8 % 70-130 mg/kg mg/kg Analy ND 20.0 1 95.0 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 109 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 ND 50.0 07/09/24 ND 50.200 07/09/24	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 07/09/24 ND 0.0500 1 07/09/24 07/09/24 ND 0.0250 1 07/09/24 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 07/09/24 ND 25.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24 07/09/24 ND 50.0 1 07/09/24



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 16-4' E407034-16

		E40/034-16				
	D. I	Reporting	D.1 (;	D 1		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		111 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2428022
Chloride	250	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 17-4'

		E407034-17				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Thaiye	Result	Limit	Dilution	Trepared	Maryzed	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		101 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 18-4' E407034-18

		£40/034-18				
Analysis	Result	Reporting Limit	Dilution	D	A a laa d	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		103 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 19-4' E407034-19

		E40/034-19				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		106 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428022
Chloride	437	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Comp 20-4' E407034-20

		E40/034-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428030
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428019
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		105 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428022
Chloride	ND	200	10	07/09/24	07/09/24	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount #1A 20046-0001	Reported:
7 W. Compress Road Artesia NM, 88210	Project Number: Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden					7/10/2024 1:17:01PM
		Volatile O	rganics b	y EPA 8021	B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428030-BLK1)							Prepared: 0'	7/08/24 Aı	nalyzed: 07/08/24
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	7.04		8.00		88.1	70-130			
LCS (2428030-BS1)]	Prepared: 0'	7/08/24 Aı	nalyzed: 07/08/24
Benzene	5.37	0.0250	5.00		107	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.28	0.0250	5.00		106	70-130			
o-Xylene	5.11	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	7.13		8.00		89.2	70-130			
LCS Dup (2428030-BSD1)]	Prepared: 0'	7/08/24 Aı	nalyzed: 07/08/24
Benzene	5.21	0.0250	5.00		104	70-130	3.06	20	
Ethylbenzene	5.00	0.0250	5.00		100	70-130	2.93	20	
Toluene	5.12	0.0250	5.00		102	70-130	3.06	20	
o-Xylene	4.95	0.0250	5.00		98.9	70-130	3.16	20	
o,m-Xylene	10.1	0.0500	10.0		101	70-130	2.96	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	3.03	20	

70-130



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladden	ı			7/10	0/2024 1:17:01PM
	Non	halogenated	Organics l	by EPA 801	15D - G	RO		1	Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428030-BLK1)						I	Prepared: 0'	7/08/24 Analy	zed: 07/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			
LCS (2428030-BS2)						I	Prepared: 0'	7/08/24 Analy	zed: 07/08/24
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			
LCS Dup (2428030-BSD2)						I	Prepared: 0'	7/08/24 Analy	zed: 07/08/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130	4.71	20	

70-130



QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 1:17:01PM

Artesia NM, 88210		Project Manager	r: Na	italie Gladder	1			-7/	10/2024 1:17:01PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428019-BLK1)							Prepared: 0	7/08/24 Ana	llyzed: 07/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.2		50.0		112	50-200			
LCS (2428019-BS1)							Prepared: 0	7/08/24 Ana	lyzed: 07/08/24
Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			
LCS Dup (2428019-BSD1)							Prepared: 0	7/08/24 Ana	lyzed: 07/09/24
Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132	1.56	20	
Surrogate: n-Nonane	60.9		50.0		122	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number		est Mount #12	A				Reported:
Artesia NM, 88210		Project Manager		atalie Gladder	ı				7/10/2024 1:17:01PM
Anions by EPA 300.0/9056A Analyst: DT								Analyst: DT	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2428022-BLK1)							Prepared: 0'	7/08/24 Aı	nalyzed: 07/08/24
Chloride	ND	20.0							
LCS (2428022-BS1)							Prepared: 0'	7/08/24 Aı	nalyzed: 07/08/24
Chloride	256	20.0	250		102	90-110			
LCS Dup (2428022-BSD1)							Prepared: 0'	7/08/24 Aı	nalyzed: 07/08/24
Chloride	254	20.0	250		102	90-110	0.455	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 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.



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Chain of Custody

Project	Informatio	n

100001	10001				Lab Use Only TAT					Τ	EPA P	ogram			
lient: / / WC/L	Bill To Attention: ENERGY STAFFING SERVI	ces F	Lab V	MO#			Job 1		oer	1D	2D	3D)	Standard	CWA	SDWA
roject: West mount 1 A	Address: 2724 NW COUNTY RD		E 4	Z	03				,-000)		V				
roject Manager: N. Gladden	City, State, Zip HOBBS, NM 88240						Analy	sis ar	d Method	j					RCRA
ddress:	Phone: 575-393-9048		T											<u></u>	L
City, State, Zip	Email: NATALIE@ENERGYSTAFFINGLLC	:.COM	SI	2										State	
none:	BRITTINEY@ENERGYSTAFFINGLI	.C.COM	8	8	r-4	_		0.0		ξ			NM CO	UT AZ	1X
mail:	BRITINGTEGORGE		0	O D	805	978	9030	30		1	Ľ	1 1	14		1
Report due by:		Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	voc by 8260	Metals 6010	Chloride 300.0		BGD0C	ВСОСС			Remarks	
Time Date Matrix No of Containers Sample ID		Number	, M	ğ	918	3	Σ	5		1 8	8				
7/5 5011 1 Com	1-4'	1				_				K	_				
To to the County	27 - 6	2			<u> </u>			<u> </u>		\downarrow)			 		
Com	23 - 4'	3								15					
) Con	4-01	4													
1 () Comp	5-4'	5								1					
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(Com	0 0	10								K	2				
Additional Instructions:	2 10 - 75				!										
							15>-	rinles re	equiring therm	al prese	rvation	must be	received on ice the	day they are s	mpled or received
l, (field sampler), attest to the validity and authenticity of this sampl	e. I am aware that tampering with or intentionally mislabel or legal action. Sampled by:	ing the som	pie loci		,		pac	ked in	ice at an ave to	emp abo	ove O bu	st less th	an 6°C on subseque	nt days	
date or time of collection is considered fraud and may be grounds to	or legal action. Sampled by:	Date		Tim	ne		+				Lab	Use (Only		
Refinalished by: (Signature) Date 78/25 Tin	:30 Michelle Gonzales	7-8	3-24		33	0	R	eceiv	ed on ice	2:	(D)				
Reintyshed by Kignature Date Tir	Received by (Senature)	7.8	1.20	4	1	<u>5</u> 5	<u> </u>	1			2		<u>T3</u>		
	ignature) Date 7.8.14 7 4 Received by: (Signature)				ne 12	0	A	VG T	emp °C_	4					
		Cantai	T		. als	355, P	- noh	I/nlas	tic ap - at	mber	glass	, v - V(OA		Abo ubouo
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Othe Note: Samples are discarded 30 days after results are repor	ted unless other arrangements are made. Hazardou	s samples v	will be	returi	ned to	o clier	nt or d	ispose	ed of at the	client	expe	nse. T	ne report for th	e anaiysis o	IIIG GOOAG
Note: Samples are discarded 30 days after results are reput samples is applicable only to those samples received by the	laboratory with this COC. The liability of the laborate	ory is limite	d to th	ne am	ount	paid f	or on t	the re	port.						
							100	- ,				,	·	- N	

													y to s	Receiv
Project Information	Chain of C	Custody								v		Page Z	of <u>(</u>	ed by OC
Client: Word Project: () PS+mount LA	Bill To Attention: ENERGY STAFFING SERVICE	CES L	ab W	O#		e Only Job Nu	ımber	1D	2D	TAT 3D	Standard		SDWA	D: 5/16/
Project Manager: U. G. Wadde- Address: City, State, Zip	Address: 2724 NW COUNTY RD City, State, Zip FIOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLEC	 	T	70	39	Analysi	s and Metho	d				State	RCRA	2025 12:
Phone: Email: Report due by:	Email: NATALLEGENBRG13TATTUGGLL	C.COM	DRO/ORO by 8015	GRO/DRO by 8015 RTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGOOC NM	BGDOC 1X		NM C	O UT AZ		Received by OCD: 5/16/2025 12:00:30 AM
Sampled Sampled Matrix Containers Sample ID	11-61	Number 	NG	R P))	ž	5	5						
Comp	12-41	13												
Comp	14-41	14						1						32 of 33
Comp	16-41	16												Page
Comp	17-4'	17												
Comp	19-41	19				-		+	}					
Additional Instructions: I, (field sampler), attest to the validity and authenticity of this sample. I	that semanting with an intentionally mislabell	ling the samp	olelecat	ion,		Sanip	oles requiring then	mal pres	ervation	n must be r	eceived on ice t	he day they are :	sampled or receive	ved
date or time of collection is considered fraud and may be grounds for le	gal action. Sampled by: (signature) Wightelle Gonzales	Date	1.24	Time	30	=	ceived on ic			Use O				
Relinguished by (Signature) Relinguished by (Signature) Date 7-8-24 Time 7-8-24 Time 7-8-24 Time	Received by: (Signature)	7. C	3.U 1-24	Time	75 20	S T1	'G Temp °C	4	Γ2		<u>T3</u>			Pa
Sample Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other _ Note: Samples are discarded 30 days after results are reported samples is applicable only to those samples received by the lab	unless other arrangements are made. Hazardou poratory with this COC. The liability of the laborator	Contair	ner Ty	eturne	glass, p	o - poly/ int or dis	plastic, ag - posed of at the	amhei	r glass t expe	s, v - VO ense. Th	A e report for	the analysis o	of the above	Page 446 o
Samples to applicable only to those samples received by the in-										V	rc) # (3 C	

Printed: 7/9/2024 3:01:00PM

Envirotech Analytical Laboratory

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.

we receive no response concerning these	THE WITHIN 21 HOURS OF E			-	· ·	
Client: Mack Energy		Date Received:	07/09/24 1	1:20	Work Order ID	: E407034
Phone: (575) 390-6397		Date Logged In:	07/08/24 10		Logged In By:	Alexa Michaels
Email: Natalie@energystaffingllc.co	om	Due Date:	07/10/24 1	7:00 (1 day TAT)		
Chain of Custody (COC)						
1. Does the sample ID match the CO	C?		Yes			
2. Does the number of samples per samples		th the COC	Yes			
3. Were samples dropped off by clien	nt or carrier?		Yes	Carrier: C	Couier	
4. Was the COC complete, i.e., signa	tures, dates/times, request	ed analyses?	No	_		
5. Were all samples received within Note: Analysis, such as pH v i.e, 15 minute hold time, are	which should be conducted in		Yes		Comme	ents/Resolution
Sample Turn Around Time (TAT)	not metaded in tins disuessio	u.				
6. Did the COC indicate standard TA	T. or Expedited TAT?		Yes		Time sampled is not d	locumented on the
Sample Cooler	, o. 2p • • • • • • • • • • • • • • • • • •				COC by client. West I	Mount 1A has been
7. Was a sample cooler received?			Yes		separated into multipl	
8. If yes, was cooler received in good	d condition?		Yes			_
9. Was the sample(s) received intact,					sample volume. WO a	
10. Were custody/security seals prese			Yes		E407034, E407035 an	nd E407036.
11. If yes, were custody/security seals			No			
• •		601206	NA			
12. Was the sample received on ice? If ye Note: Thermal preservation i minutes of sampling	s not required, if samples are	received w/i 15	Yes			
13. If no visible ice, record the temperature of th	erature. Actual sample	temperature: 4°0	<u>U</u>			
Sample Container						
14. Are aqueous VOC samples prese			No			
15. Are VOC samples collected in V			NA NA			
16. Is the head space less than 6-8 m	=		NA			
17. Was a trip blank (TB) included for			NA			
18. Are non-VOC samples collected		ous collocted?	Yes			
19. Is the appropriate volume/weight of	r number of sample contain	ers conecteu?	Yes			
Field Label 20. Were field sample labels filled on	ut with the minimum infe	matian.				
Sample ID?	ut with the minimum info	manon.	Yes			
Date/Time Collected?			Yes			
Collectors name?			No			
Sample Preservation						
21. Does the COC or field labels ind	icate the samples were pro	eserved?	No			
22. Are sample(s) correctly preserve			NA			
24. Is lab filteration required and/or a	requested for dissolved m	etals?	No			
Multiphase Sample Matrix						
26. Does the sample have more than	one phase, i.e., multiphas	e?	No			
27. If yes, does the COC specify whi	ich phase(s) is to be analy:	zed?	NA			
Subcontract Laboratory						
28. Are samples required to get sent	to a subcontract laborator	v?	No			
29. Was a subcontract laboratory spe				Subcontract Lab	o: NA	
Client Instruction	·					
Chefit Histi uction						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407035

Job Number: 20046-0001

Received: 7/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/24

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: 7/10/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407035

Date Received: 7/9/2024 11:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/9/2024 11:20:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Donautodi
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 14:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 21-8'	E407035-01A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 22-4'	E407035-02A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 23-4'	E407035-03A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 24-10'	E407035-04A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 25-10'	E407035-05A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 26-10'	E407035-06A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 27-8'	E407035-07A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 28-6'	E407035-08A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 29-6'	E407035-09A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 30-6'	E407035-10A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 31-4'	E407035-11A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 32-4'	E407035-12A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 33-4'	E407035-13A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 34-4'	E407035-14A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 35-8'	E407035-15A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 36-8'	E407035-16A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 37-8'	E407035-17A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 38-8'	E407035-18A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 39-8'	E407035-19A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 40-8'	E407035-20A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 21-8' E407035-01

		E407033-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		88.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		110 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2428024
Chloride	58.0	20.0	1	07/09/24	07/09/24	

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 22-4' E407035-02

		E40/033-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilution	Frepared	Ananyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
o,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		87.8 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		108 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428024
Chloride	364	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 23-4' E407035-03

		E40/035-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		88.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		108 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 24-10'

E407035-04								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032		
Benzene	ND	0.0250	1	07/09/24	07/09/24			
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24			
Toluene	ND	0.0250	1	07/09/24	07/09/24			
o-Xylene	ND	0.0250	1	07/09/24	07/09/24			
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24			
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24			
Surrogate: 4-Bromochlorobenzene-PID		87.7 %	70-130	07/09/24	07/09/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/09/24	07/09/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428026		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24			
Surrogate: n-Nonane		107 %	50-200	07/09/24	07/09/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428024		
Chloride	ND	200	10	07/09/24	07/09/24			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 25-10' E407035-05

		E40/035-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
o,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		89.3 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		109 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 26-10' E407035-06

		E40/033-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilution	Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		88.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		113 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 27-8' E407035-07

		E40/035-0/				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
o,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		89.1 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24	
Surrogate: n-Nonane		108 %	50-200	07/09/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 28-6'

E407035-08								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: BA		Batch: 2428032		
Benzene	ND	0.0250	1	07/09/24	07/09/24			
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24			
Toluene	ND	0.0250	1	07/09/24	07/09/24			
o-Xylene	ND	0.0250	1	07/09/24	07/09/24			
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24			
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24			
Surrogate: 4-Bromochlorobenzene-PID		88.7 %	70-130	07/09/24	07/09/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: BA		Batch: 2428032		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/09/24	07/09/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: KM		Batch: 2428026		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/09/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/09/24			
Surrogate: n-Nonane		108 %	50-200	07/09/24	07/09/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2428024		
Chloride	ND	200	10	07/09/24	07/09/24			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 29-6' E407035-09

		E40/035-09				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	Frepared	Ananyzeu	Inotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
p-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		108 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 30-6' E407035-10

		E40/035-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		115 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 31-4'

E407035-11								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428032		
Benzene	ND	0.0250	1	07/09/24	07/10/24			
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24			
Toluene	ND	0.0250	1	07/09/24	07/10/24			
o-Xylene	ND	0.0250	1	07/09/24	07/10/24			
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24			
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24			
Surrogate: 4-Bromochlorobenzene-PID		89.1 %	70-130	07/09/24	07/10/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428032		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/10/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2428026		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24			
Surrogate: n-Nonane		119 %	50-200	07/09/24	07/10/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2428024		
Chloride	211	200	10	07/09/24	07/09/24			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 32-4'

E407035-12							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2428032	
Benzene	ND	0.0250	1	07/09/24	07/10/24		
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24		
Toluene	ND	0.0250	1	07/09/24	07/10/24		
o-Xylene	ND	0.0250	1	07/09/24	07/10/24		
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24		
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24		
Surrogate: 4-Bromochlorobenzene-PID		89.4 %	70-130	07/09/24	07/10/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/10/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2428026	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24		
Surrogate: n-Nonane		112 %	50-200	07/09/24	07/10/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2428024	
Chloride	ND	200	10	07/09/24	07/09/24		



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 33-4' E407035-13

		E40/033-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
o,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.4 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		119 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 34-4'

E407035-14								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428032		
Benzene	ND	0.0250	1	07/09/24	07/10/24			
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24			
Toluene	ND	0.0250	1	07/09/24	07/10/24			
o-Xylene	ND	0.0250	1	07/09/24	07/10/24			
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24			
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24			
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	07/09/24	07/10/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428032		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/10/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2428026		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24			
Surrogate: n-Nonane		115 %	50-200	07/09/24	07/10/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2428024		
Chloride	ND	200	10	07/09/24	07/09/24			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 35-8' E407035-15

		E407035-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
oluene	ND	0.0250	1	07/09/24	07/10/24	
-Xylene	ND	0.0250	1	07/09/24	07/10/24	
,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		113 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 36-8' E407035-16

		E40/033-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2428032
nzene	ND	0.0250	1	07/09/24	07/10/24	
nylbenzene	ND	0.0250	1	07/09/24	07/10/24	
luene	ND	0.0250	1	07/09/24	07/10/24	
Xylene	ND	0.0250	1	07/09/24	07/10/24	
n-Xylene	ND	0.0500	1	07/09/24	07/10/24	
tal Xylenes	ND	0.0250	1	07/09/24	07/10/24	
rogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	07/09/24	07/10/24	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2428032
soline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
rogate: 1-Chloro-4-fluorobenzene-FID		110 %	70-130	07/09/24	07/10/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2428026
esel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
rogate: n-Nonane		119 %	50-200	07/09/24	07/10/24	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	Analyst: DT		Batch: 2428024
loride	277	200	10	07/09/24	07/09/24	
*					07/09/24	Ba



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 37-8'

		E407035-17				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Marye	Result	Limit	Dilution	Trepared	7 thaty zed	rotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		118 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 38-8'

		E407035-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428032
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428032
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2428026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		118 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2428024
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 39-8' E407035-19

	E40/033-19				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mo/ko	ma/ka	Analy	•		Batch: 2428032
		1		07/10/24	Batch: 2 120032
		1			
		1	07/09/24	07/10/24	
		1	07/09/24	07/10/24	
ND	0.0500	1	07/09/24	07/10/24	
ND	0.0250	1	07/09/24	07/10/24	
	90.1 %	70-130	07/09/24	07/10/24	
mg/kg	mg/kg	Analy	rst: BA		Batch: 2428032
ND	20.0	1	07/09/24	07/10/24	
	107 %	70-130	07/09/24	07/10/24	
mg/kg	mg/kg	Analy	st: KM		Batch: 2428026
ND	25.0	1	07/09/24	07/10/24	
ND	50.0	1	07/09/24	07/10/24	
	114 %	50-200	07/09/24	07/10/24	
mg/kg	mg/kg	Analy	rst: DT		Batch: 2428024
ND	200	10	07/09/24	07/09/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0 107 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0 114 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg Mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 Mg/kg mg/kg Analy ND 20.0 1 Mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 Mg/kg mg/kg Analy Mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 ND 50.0 0 07/09/2	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 07/09/24 07/10/24 ND 0.0500 1 07/09/24 07/10/24 ND 0.0250 1 07/09/24 07/10/24 MD 0.0250 1 07/09/24 07/10/24 mg/kg mg/kg Analyst: BA ND 20.0 1 07/09/24 07/10/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 07/10/24 ND 50.0 1 07/09/24 07/10/24 ND 50.0 1 07/09/24 07/10/24 ND 50.0 1 07/09/24



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Comp 40-8'

		E407035-20							
Reporting									
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428032			
Benzene	ND	0.0250	1	07/09/24	07/10/24				
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24				
Toluene	ND	0.0250	1	07/09/24	07/10/24				
o-Xylene	ND	0.0250	1	07/09/24	07/10/24				
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24				
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24				
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	07/09/24	07/10/24				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428032			
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24				
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/09/24	07/10/24				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2428026			
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24				
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24				
Surrogate: n-Nonane		118 %	50-200	07/09/24	07/10/24				
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2428024			
Chloride	ND	200	10	07/09/24	07/09/24				



QC Summary Data

		QC 50	umma	iry Data	ı				
Mack Energy 7 W. Compress Road		Project Name: Project Number:	West Mount #1A 20046-0001						Reported:
Artesia NM, 88210		Project Manager:	Na	atalie Gladden					7/10/2024 2:42:57PM
		Volatile O	rganics b	y EPA 802	1B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428032-BLK1)							Prepared: 0	7/09/24 A	Analyzed: 07/09/24
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	6.98		8.00		87.2	70-130			
LCS (2428032-BS1)							Prepared: 0	7/09/24 A	Analyzed: 07/09/24
Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.56	0.0250	5.00		91.2	70-130			
Toluene	4.76	0.0250	5.00		95.3	70-130			
o-Xylene	4.64	0.0250	5.00		92.8	70-130			
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			
Matrix Spike (2428032-MS1)				Source: 1	E 407035- 0	06	Prepared: 0	7/09/24 A	Analyzed: 07/09/24
Benzene	4.68	0.0250	5.00	ND	93.7	54-133			
Ethylbenzene	4.40	0.0250	5.00	ND	88.0	61-133			
Toluene	4.61	0.0250	5.00	ND	92.2	61-130			
o-Xylene	4.52	0.0250	5.00	ND	90.3	63-131			
p,m-Xylene	9.07	0.0500	10.0	ND	90.7	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.8	70-130			
Matrix Spike Dup (2428032-MSD1)				Source: 1	E407035-0	06	Prepared: 0	7/09/24 A	Analyzed: 07/09/24
Benzene	4.52	0.0250	5.00	ND	90.4	54-133	3.59	20	
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133	3.50	20	
Toluene	4.45	0.0250	5.00	ND	89.0	61-130	3.58	20	
o-Xylene	4.38	0.0250	5.00	ND	87.5	63-131	3.14	20	
p,m-Xylene	8.77	0.0500	10.0	ND	87.7	63-131	3.35	20	
p,iii-Ayrene	13.1	0.0250	15.0	ND	87.7	63-131	3.28	20	

8.00

7.11

70-130



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			7	7/10/2024 2:42:57PM
Nonhalogenated Organics by EPA 8015D - GRO Analyst: BA									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428032-BLK1)							Prepared: 0	7/09/24 An	alyzed: 07/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			
LCS (2428032-BS2)							Prepared: 0	7/09/24 An	alyzed: 07/09/24
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			
Matrix Spike (2428032-MS2)				Source:	E407035-	06	Prepared: 0	7/09/24 An	alyzed: 07/09/24
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			
Matrix Spike Dup (2428032-MSD2)				Source:	E407035-	06	Prepared: 0	7/09/24 An	alyzed: 07/09/24
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.9	70-130	7.65	20	

8.00

8.72

109

70-130

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 2:42:57PM

//10/2024 2:42:5/PM			Artesia NM, 88210					
Analyst: KM		/ORO						
	RP Lin	Rec Limits	Rec	Source Result	Spike Level	Reporting Limit	Result	Analyte
% Notes	% %	%	%	mg/kg	mg/kg	mg/kg	mg/kg	
4 Analyzed: 07/09/24	Prepared: 07/09/24							Blank (2428026-BLK1)
						25.0	ND	Diesel Range Organics (C10-C28)
						50.0	ND	Oil Range Organics (C28-C36)
		50-200	110		50.0		55.2	Surrogate: n-Nonane
4 Analyzed: 07/09/24	Prepared: 07/09/24							LCS (2428026-BS1)
		38-132	124		250	25.0	310	Diesel Range Organics (C10-C28)
		50-200	106		50.0		53.1	Surrogate: n-Nonane
4 Analyzed: 07/09/24	Prepared: 07/09/2							LCS Dup (2428026-BSD1)
)	6.25 20	38-132	116		250	25.0	291	Diesel Range Organics (C10-C28)
		50-200	106		50.0		52.8	Surrogate: n-Nonane
	-					25.0		LCS Dup (2428026-BSD1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane



QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number	: 20	est Mount #12 0046-0001	A				Reported:
Artesia NM, 88210		Project Manager	r: N	atalie Gladder	1		7/10/2024 2:42:57P		7/10/2024 2:42:57PM
	Anions by EPA 300.0/9056A							Analyst: DT	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428024-BLK1)							Prepared: 0'	7/08/24 Ar	nalyzed: 07/09/24
Chloride	ND	20.0							
LCS (2428024-BS1)							Prepared: 0'	7/08/24 Ar	nalyzed: 07/09/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2428024-BSD1)							Prepared: 0'	7/08/24 Ar	nalyzed: 07/09/24
Chloride	252	20.0	250		101	90-110	0.609	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 14:42

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.



CWA

State

Remarks

NM CO UT AZ TX

TAT

1D 2D

ξ

BGOOC

3D Standard

EPA Program

SDWA

RCRA

Bill To

HOBBS, NM 88240

BRITTINEY@ENERGYSTAFFINGLLC.COM

Attention: ENERGY STAFFING SERVICES

Email: NATALIE@ENERGYSTAFFINGLLC.COM

Address: 2724 NW COUNTY RD

City, State, Zip

Phone: 575-393-9048

Lab Use Only

Job Number

20046-0001

Chloride 300.0

Analysis and Method

Lab WO#

DRO/ORO by 8015 GRO/DRO by 8015

Number

5

E 407035

BTEX by 8023 VOC by 8260 Metals 6010

Project Information

Project Manager:

City, State, Zip

Report due by:

Sampled

wat mount it

Matrix

Sample ID

Client: YY

Address:

Phone:

Email:

Sampled

() () () () () () () () () ()	6
Comp 27-81	7
(Coppo 28-6'	8
() Coaro 29-10'	9
(Como 30 - 10'	10
Additional Instructions:	
1, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabellin	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an aveg 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: Signature Date Time Time	Date 7-5-24 Time Received on ice: \(\Omega\)/ N
Relinguished by: (Signature) Nichelle Gonzales 7-8.94 1755 Received by: (Signature)	7.8.24 Time 755 T1 T2 T3
Relinquished by: (Signature) 7.8.W 2400 Received by: (Signature)	7-9-24 11 20 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 s	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 is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory	r is limited to the amount paid for on the report.
Samples is applicable only to those samples received by the laboratory	C enviro ec

Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip FLOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM BRITTNEY@ENERGYSTAFFINGLIC.COM BROOTT due by:			
Address: 2724 NW COUNTY RD City, State, Zip FLOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM Report due by: Time Date Matrix No of Sample ID Address: 2724 NW COUNTY RD City, State, Zip FLOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM Analysis and Method SI NM CO UT Report due by: Time Date Matrix No of Sample ID	tate		
City, State, Zip FLOBBS, NM 88240 Analysis and Method City, State, Zip FLOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM Email: BRITTNEY@ENERGYSTAFFINGLIC.COM Time Date Matrix No of Sample ID Analysis and Method SI NM CO UT NM CO UT NM CO UT Report due by: Time Date Matrix No of Sample ID	tate		
Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM BRITTNEY@ENERGYSTAFFINGLIC.COM Time Date Matrix No of Sample ID Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM BRITTNEY@ENERGYSTAFFINGLIC.COM A DO O O O O O O O O O O O O O O O O O O			
Email: NATALIE@ENERGYSTAFFINGLIC.COM Prone: Email: NATALIE@ENERGYSTAFFINGLIC.COM A DO			
Email: Report due by: Time Date Matrix No of Sample ID BRITTINEY@ENERGYSTAFFINGLIC.COM A A A STEED OF STAFFINGLIC.COM BRITTINEY@ENERGYSTAFFINGLIC.COM A A A STEED OF STAFFINGLIC.COM BRITTINEY@ENERGYSTAFFINGLIC.COM A A A STEED OF STAFFINGLIC.COM BRITTINEY@ENERGYSTAFFINGLIC.COM BRITTINEY@ENERGYSTAFFINGLIC.COM B A A A STEED OF STAFFINGLIC.COM B A A A STEED OF STAFFINGLIC.COM B A A A STEED OF STAFFINGLIC.COM B A A A A STAFFINGLIC.COM B A A A STAFFINGLIC.COM B A A A A A STAFFINGLIC.COM B A A A A A A STAFFINGLIC.COM B A A A A A A A STAFFINGLIC.COM B A A A A A A A STAFFINGLIC.COM B A A A A A A A STAFFINGLIC.COM B A A A A	1 1 1		
Report due by: Time Date Sampled Sampled Matrix Containers Sample ID Lab Number Sampled Sampled Sampled Sample ID			
Time Date Sampled Sampled Maltix Containers Sample ID Lab O O O O O O O O O O O O O O O O O O O			
	marks		
7/5/501/1/0000 31 - 41			
75 50.7 (
(()) $()$			
34-41 14			
35-21 15			
$\frac{36-8'}{16}$			
37-8' 17			
38 - 8' 18			
$\frac{1}{39-8}$			
40-81 20			
Additional Instructions:			
[], (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally missauleur day	ey are sampled or receiv s		
date or time of collection is considered fraud and may be grounds for legal action.			
Received on ice: 0/ N			
Relinquisped by: (Signature) Vicinelle Googales 7-8:14 755 Received by: (Signature) 7.8:14 1755 T1 T2 T3			
Relinquisted by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Date Date Date Date			
Additional Instructions: Additional Instruc			
Hazardous samples will be recognized unless other arrangements are made. Hazardous samples will be returned to client of disposed of other arrangements.	19313 OI LISE SHOWE		
Note: Samples are discarded 30 days after results are reputied unless other arrangements of the laboratory is limited to the amount paid for on the report.			

Printed: 7/9/2024 3:01:08PM

Envirotech Analytical Laboratory

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.

	The response concerning chees from the first and the first		,	ampies was se une	200 45 1044055045
Client:	Mack Energy	Date Received:	07/09/24 1	1:20	Work Order ID: E407035
Phone:	(575) 390-6397	Date Logged In:	07/08/24 1	6:33	Logged In By: Alexa Michaels
Email:		Due Date:	07/10/24	17:00 (1 day TAT)	,
Chain of	Custody (COC)				
	ne sample ID match the COC?		Yes		
	ne number of samples per sampling site location match	h the COC	Yes		
	amples dropped off by client or carrier?		Yes	Carrier: C	Courer
	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No	Carrier. <u>c</u>	<u>Coulci</u>
	Il samples received within holding time?	<i>- - - - - - - - - -</i>	Yes		
	Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		100		Comments/Resolution
Sample T	Turn Around Time (TAT)				
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled is not documented on the
Sample C	<u>Cooler</u>				COC by client. West Mount 1A has been
7. Was a s	sample cooler received?		Yes		separated into multiple WO due to high
8. If yes,	was cooler received in good condition?		Yes		sample volume. WO are as follows:
9. Was the	e sample(s) received intact, i.e., not broken?		Yes		l -
10. Were	custody/security seals present?		No		E407034, E407035 and E407036.
	were custody/security seals intact?		NA		
	e sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are a minutes of sampling	received w/i 15	Yes		
	visible ice, record the temperature. Actual sample to	emperature: 4°C	<u> </u>		
	Container VOC		2.7		
	queous VOC samples present?		No		
	OC samples collected in VOA Vials?		NA NA		
	head space less than 6-8 mm (pea sized or less)?		NA		
	trip blank (TB) included for VOC analyses?		NA		
	on-VOC samples collected in the correct containers?	11 4 10	Yes		
	appropriate volume/weight or number of sample containe	rs collected?	Yes		
Field Lab	<u>oet</u> field sample labels filled out with the minimum infori				
	meid sample labeis illied out with the minimum information ample ID?	mation:	Yes		
	atte/Time Collected?		Yes		
	ollectors name?		No		
Sample P	reservation				
21. Does	the COC or field labels indicate the samples were pre-	served?	No		
22. Are sa	ample(s) correctly preserved?		NA		
24. Is lab	filteration required and/or requested for dissolved me	tals?	No		
Multipha	se Sample Matrix				
26. Does	the sample have more than one phase, i.e., multiphase	?	No		
	, does the COC specify which phase(s) is to be analyz		NA		
	ract Laboratory				
	amples required to get sent to a subcontract laboratory	₇ 9	No		
	subcontract laboratory specified by the client and if s		NA	Subcontract Lab	o: NA
Client Ir	<u>nstruction</u>				
•					

Date

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

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407036

Job Number: 20046-0001

Received: 7/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/24

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: 7/10/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407036

Date Received: 7/9/2024 11:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/9/2024 11:20:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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 #1A	Danartada
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 15:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 41-4'	E407036-01A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 42-4'	E407036-02A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 43-4'	E407036-03A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 44-4'	E407036-04A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 45-4'	E407036-05A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 46-4'	E407036-06A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 47-4'	E407036-07A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 48-4'	E407036-08A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 49-4'	E407036-09A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 50-4'	E407036-10A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 51-4'	E407036-11A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 52-4'	E407036-12A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 53-4'	E407036-13A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 54-4'	E407036-14A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 55-4'	E407036-15A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 56-4'	E407036-16A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 57-4'	E407036-17A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.
Comp 58-4'	E407036-18A	Soil	07/05/24	07/09/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 41-4' E407036-01

	Reporting					
Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
mg/kg	mg/kg	1	Analyst: l	RKS		Batch: 2428034
ND	0.0250	1		07/09/24	07/09/24	
ND	0.0250	1		07/09/24	07/09/24	
ND	0.0250	1		07/09/24	07/09/24	
ND	0.0250	1		07/09/24	07/09/24	
ND	0.0500	1		07/09/24	07/09/24	
ND	0.0250	1	l	07/09/24	07/09/24	
	103 %	70-130		07/09/24	07/09/24	
	92.5 %	70-130		07/09/24	07/09/24	
	104 %	70-130		07/09/24	07/09/24	
mg/kg	mg/kg	Analyst: RKS			Batch: 2428034	
ND	20.0	1	Į.	07/09/24	07/09/24	
	103 %	70-130		07/09/24	07/09/24	
	92.5 %	70-130		07/09/24	07/09/24	
	104 %	70-130		07/09/24	07/09/24	
mg/kg	mg/kg	1	Analyst: l	KM		Batch: 2428027
ND	25.0	1		07/09/24	07/10/24	
ND	50.0	1	l	07/09/24	07/10/24	
	111 %	50-200		07/09/24	07/10/24	
mg/kg	mg/kg		Analyst: l	DT		Batch: 2428025
ND	200	10	0	07/09/24	07/09/24	
	mg/kg ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 I03 % 92.5 % 104 % mg/kg ND 20.0 103 % 92.5 % 104 % mg/kg MD 25.0 ND 50.0 III % mg/kg mg/kg mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 103 % 70-130 92.5 % 70-130 104 % 70-130 mg/kg mg/kg ND 20.0 103 % 70-130 92.5 % 70-130 104 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 111 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 1 92.5 % 70-130 1 Mg/kg mg/kg Analyst: 1 ND 20.0 1 103 % 70-130 1 92.5 % 70-130 1 mg/kg mg/kg Analyst: 1 ND 25.0 1 ND 50.0 1 111 % 50-200 mg/kg mg/kg Analyst: 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 92.5 % 70-130 07/09/24 104 % 70-130 07/09/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 07/09/24 103 % 70-130 07/09/24 92.5 % 70-130 07/09/24 104 % 70-130 07/09/24 104 % 70-130 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 ND 50.0 1 07/09/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 07/09/24 07/09/24 ND 0.0500 1 07/09/24 07/09/24 ND 0.0250 1 07/09/24 07/09/24 ND 0.0250 1 07/09/24 07/09/24 ND 0.0250 1 07/09/24 07/09/24 92.5 % 70-130 07/09/24 07/09/24 92.5 % 70-130 07/09/24 07/09/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 07/09/24 07/09/24 92.5 % 70-130 07/09/24 07/09/24 92.5 % 70-130 07/09/24 07/09/24 07/09/24<



Mack EnergyProject Name:West Mount #1A7 W. Compress RoadProject Number:20046-0001Reported:Artesia NM, 88210Project Manager:Natalie Gladden7/10/2024 3:12:48PM

Comp 42-4' E407036-02

		E40/030-02				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte		Limit		1	Maryzea	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	07/09/24	07/09/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130	07/09/24	07/09/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		99.3 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/09/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 43-4' E407036-03

	210700000					
D agult	Reporting	D:I	lution	Branarad	Analyzad	Notes
Resuit	Limit	ווע	iution	Frepared	Anaryzeu	Notes
ng/kg	mg/kg		Analyst:	RKS		Batch: 2428034
ND	0.0250		1	07/09/24	07/09/24	
ND	0.0250		1	07/09/24	07/09/24	
ND	0.0250		1	07/09/24	07/09/24	
ND	0.0250		1	07/09/24	07/09/24	
ND	0.0500		1	07/09/24	07/09/24	
ND	0.0250		1	07/09/24	07/09/24	
	101 %	70-130		07/09/24	07/09/24	
	91.3 %	70-130		07/09/24	07/09/24	
	102 %	70-130		07/09/24	07/09/24	
ng/kg	mg/kg		Analyst:	RKS		Batch: 2428034
ND	20.0		1	07/09/24	07/09/24	
	101 %	70-130		07/09/24	07/09/24	
	91.3 %	70-130		07/09/24	07/09/24	
	102 %	70-130		07/09/24	07/09/24	
ng/kg	mg/kg		Analyst:	KM		Batch: 2428027
ND	25.0		1	07/09/24	07/10/24	
ND	50.0		1	07/09/24	07/10/24	
		50-200		07/09/24	07/10/24	
	117 %	30-200		07/03/24	07/10/24	
ng/kg	117 % mg/kg	30-200	Analyst:		0//10/24	Batch: 2428025
1	ND N	Reporting Limit Limit ng/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 I01 % 91.3 % 102 % ng/kg mg/kg ND 20.0 101 % 91.3 % 102 % ng/kg mg/kg ND 25.0	Result Limit Di ng/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 101 % 70-130 91.3 % 70-130 102 % 70-130 91.3 % 70-130 102 % 70-130 102 % 70-130 102 % 70-130 102 % 70-130 102 % 70-130 102 % 70-130 102 % 70-130 102 % 70-130	Result Limit Dilution	Reporting Result Limit Dilution Prepared ng/kg mg/kg Analyst: RKS ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 91.3 % 70-130 07/09/24 91.3 % 70-130 07/09/24 ng/kg mg/kg Analyst: RKS ND 20.0 1 07/09/24 91.3 % 70-130 07/09/24 91.3 % 70-130 07/09/24 91.3 % 70-130 07/09/24 102 % 70-130 07/09/24 ng/kg mg/kg Analyst: KM ND 25.0 1 07/09/24	Result Limit Dilution Prepared Analyzed



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 44-4' E407036-04

		E40/030-04				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Maryte	Result	Liiiit		1	Tillalyzed	rotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	07/09/24	07/09/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	07/09/24	07/09/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		117 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 45-4' E407036-05

		E40/030-05					
Austra	D14	Reporting Limit	Dilu	 :	Dunnand	A la d	Notes
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2428034
Benzene	ND	0.0250	1	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	1	07/09/24	07/09/24	
p-Xylene	ND	0.0250	1	1	07/09/24	07/09/24	
o,m-Xylene	ND	0.0500	1	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		104 %	70-130		07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		07/09/24	07/09/24	
Surrogate: Toluene-d8		102 %	70-130		07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		104 %	70-130		07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		07/09/24	07/09/24	
Surrogate: Toluene-d8		102 %	70-130		07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/09/24	07/10/24	
Surrogate: n-Nonane		113 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2428025
Chloride	ND	200	1	0	07/09/24	07/10/24	
Anions by EPA 300.0/9056A Chloride						07/10/24	Batch: 242



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 46-4' E407036-06

		E40/030-00				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Zinaryte				1	Tillalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	07/09/24	07/09/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	07/09/24	07/09/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		111 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 47-4' E407036-07

		E40/030-0/					
Analyte	Result	Reporting Limit	Dilut	ion Dro	pared	Analyzed	Notes
- Amarya	Result	Lillit	Dilui	ion FIC	parcu	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2428034
Benzene	ND	0.0250	1	07/	09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/	09/24	07/09/24	
Toluene	ND	0.0250	1	07/	09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/	09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/	09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/	09/24	07/09/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/	09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	07/	09/24	07/09/24	
Surrogate: Toluene-d8		103 %	70-130	07/	09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS			Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/	09/24	07/09/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/	09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	07/	09/24	07/09/24	
Surrogate: Toluene-d8		103 %	70-130	07/	09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM			Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/	09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/	09/24	07/10/24	
Surrogate: n-Nonane		121 %	50-200	07/	09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2428025
Chloride	ND	200	10	07/9	09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 48-4' E407036-08

		E407036-08					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	ı	Analyst:	RKS		Batch: 2428034
Benzene	ND	0.0250	1	l	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	[07/09/24	07/09/24	
Toluene	ND	0.0250	1	[07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	l	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	l	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	<u> </u>	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		07/09/24	07/09/24	
Surrogate: Toluene-d8		103 %	70-130		07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/09/24	07/09/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/09/24	07/09/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		07/09/24	07/09/24	
Surrogate: Toluene-d8		103 %	70-130		07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	07/09/24	07/10/24	
Surrogate: n-Nonane		121 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	ي	Analyst:	DT		Batch: 2428025
Chloride	ND	200	10	0	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 49-4' E407036-09

		E40/030-03				
Analyte	Result	Reporting Limit	Dilut	ion Prepar	ed Analyzed	Notes
- Amary C	Result	Lillit	Dilut	ion ricpai	Cu Anaryzeu	rotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/	24 07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/	24 07/10/24	
Toluene	ND	0.0250	1	07/09/	24 07/10/24	
o-Xylene	ND	0.0250	1	07/09/	24 07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/	24 07/10/24	
Total Xylenes	ND	0.0250	1	07/09/	24 07/10/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/09/	24 07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	07/09/	224 07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/	24 07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/	24 07/10/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/09/	224 07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	07/09/	24 07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/	724 07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/	24 07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/	24 07/10/24	
Surrogate: n-Nonane		121 %	50-200	07/09/	724 07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/	24 07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 50-4' E407036-10

		E40/030-10				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
- Amary C	Result			1	7 mary zeu	110103
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		121 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 51-4' E407036-11

		E40/030-11					
	D. Iv	Reporting					N
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RI	ΚS		Batch: 2428034
Benzene	ND	0.0250	1		07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1		07/09/24	07/10/24	
Toluene	ND	0.0250	1		07/09/24	07/10/24	
o-Xylene	ND	0.0250	1		07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1		07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1		07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RI	KS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: Kl	М		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1		07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1		07/09/24	07/10/24	
Surrogate: n-Nonane		128 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: D	Γ		Batch: 2428025
Chloride	ND	200	10)	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 52-4' E407036-12

		E40/030-12					
	D. I	Reporting			D 1		N
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2428034
Benzene	ND	0.0250	1		07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1		07/09/24	07/10/24	
Toluene	ND	0.0250	1		07/09/24	07/10/24	
o-Xylene	ND	0.0250	1		07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1		07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1		07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM	ſ		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1		07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1		07/09/24	07/10/24	
Surrogate: n-Nonane		125 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2428025
Chloride	ND	200	10)	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 53-4' E407036-13

		E407036-13				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		124 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 54-4' E407036-14

		E407036-14				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
p-Xylene	ND	0.0250	1	07/09/24	07/10/24	
o,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2428034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		103 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		104 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 55-4' E407036-15

	E407036-15				
D14	Reporting	Dilti	Down d	A a laa d	Nister
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	A	nalyst: RKS		Batch: 2428034
ND	0.0250	1	07/09/24	07/10/24	
ND	0.0250	1	07/09/24	07/10/24	
ND	0.0250	1	07/09/24	07/10/24	
ND	0.0250	1	07/09/24	07/10/24	
ND	0.0500	1	07/09/24	07/10/24	
ND	0.0250	1	07/09/24	07/10/24	
	104 %	70-130	07/09/24	07/10/24	
	91.5 %	70-130	07/09/24	07/10/24	
	102 %	70-130	07/09/24	07/10/24	
mg/kg	mg/kg mg/kg Analyst: RKS			Batch: 2428034	
ND	20.0	1	07/09/24	07/10/24	
	104 %	70-130	07/09/24	07/10/24	
	91.5 %	70-130	07/09/24	07/10/24	
	102 %	70-130	07/09/24	07/10/24	
mg/kg	mg/kg	A	nalyst: KM		Batch: 2428027
ND	25.0	1	07/09/24	07/10/24	
ND	50.0	1	07/09/24	07/10/24	
	90.5 %	50-200	07/09/24	07/10/24	
mg/kg	mg/kg	A	nalyst: DT		Batch: 2428025
	ND N	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 IO4 % 91.5 % IO2 % mg/kg ND 20.0 IO4 % 91.5 % IO2 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0	Reporting Result Limit Dilution mg/kg mg/kg A ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 ND 70-130 91.5 % 70-130 mg/kg mg/kg A ND 20.0 1 104 % 70-130 70-130 91.5 % 70-130 70-130 102 % 70-130 70-130 mg/kg mg/kg A ND 25.0 1 ND 50.0 1	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0500 1 07/09/24 ND 0.0250 1 07/09/24 ND 0.0250 1 07/09/24 91.5 % 70-130 07/09/24 91.5 % 70-130 07/09/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 07/09/24 91.5 % 70-130 07/09/24 91.5 % 70-130 07/09/24 102 % 70-130 07/09/24 102 % 70-130 07/09/24 102 % 70-130 07/09/24 mg/kg mg/kg Analyst: KM ND 25.0 1 07/09/24 ND 50.0 1	Reporting Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 07/09/24 07/10/24 ND 0.0250 1 07/09/24 07/10/24 ND 0.0250 1 07/09/24 07/10/24 ND 0.0500 1 07/09/24 07/10/24 ND 0.0500 1 07/09/24 07/10/24 ND 0.0250 1 07/09/24 07/10/24 ND 0.0250 1 07/09/24 07/10/24 91.5 % 70-130 07/09/24 07/10/24 91.5 % 70-130 07/09/24 07/10/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 07/09/24 07/10/24 104 % 70-130 07/09/24 07/10/24 102 % 70-130 07/09/24 07/10/24 102 % 70-130 07/09/24 07/10/24<



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 56-4' E407036-16

		E407036-16				
		Reporting		_		
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg mg/kg Analyst: RKS			Batch: 2428034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		75.5 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 57-4' E407036-17

		E40/030-1/					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RI	ζS		Batch: 2428034
Benzene	ND	0.0250	1		07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1		07/09/24	07/10/24	
Toluene	ND	0.0250	1		07/09/24	07/10/24	
o-Xylene	ND	0.0250	1		07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1		07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1		07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg Analyst: RKS			Batch: 2428034			
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130		07/09/24	07/10/24	
Surrogate: Toluene-d8		104 %	70-130		07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: Kl	M		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1		07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1		07/09/24	07/10/24	
Surrogate: n-Nonane		80.6 %	50-200		07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: D	Γ		Batch: 2428025
Chloride	ND	200	10	0	07/09/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Comp 58-4' E407036-18

		E407036-18				
		Reporting		_		
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2428034
Benzene	ND	0.0250	1	07/09/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/10/24	
Toluene	ND	0.0250	1	07/09/24	07/10/24	
o-Xylene	ND	0.0250	1	07/09/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg mg/kg Analyst: RKS			Batch: 2428034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/10/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/09/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	07/09/24	07/10/24	
Surrogate: Toluene-d8		102 %	70-130	07/09/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2428027
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
Surrogate: n-Nonane		74.6 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428025
Chloride	ND	200	10	07/09/24	07/10/24	



QC Summary Data

West Mount #1A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 7/10/2024 3:12:48PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2428034-BLK1) Prepared: 07/09/24 Analyzed: 07/09/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.522 0.500 104 70-130 Surrogate: 1,2-Dichloroethane-d4 0.467 0.500 93.3 70-130 0.500 103 70-130 Surrogate: Toluene-d8 0.515 LCS (2428034-BS1) Prepared: 07/09/24 Analyzed: 07/09/24 2.23 0.0250 2.50 89.2 70-130 Benzene 2.35 2.50 94.0 70-130 Ethylbenzene 0.0250 2.35 0.0250 2.50 94.1 70-130 2.45 97.9 70-130 0.0250 2.50 o-Xylene 4.90 5.00 98.0 70-130 p,m-Xylene 0.0500 7.35 0.0250 7.50 98.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.521 0.500 104 70-130 0.500 92.5 70-130 Surrogate: 1,2-Dichloroethane-d4 0.463 70-130 Surrogate: Toluene-d8 0.512 0.500 Matrix Spike (2428034-MS1) Source: E407036-06 Prepared: 07/09/24 Analyzed: 07/09/24 2.31 0.0250 2.50 ND 92.4 48-131 45-135 Ethylbenzene 2.43 0.0250 2.50 ND 97.0 98.4 48-130 Toluene 2.46 0.0250 2.50 ND 2.52 0.0250 2.50 ND 101 43-135 o-Xylene ND 101 43-135 p,m-Xylene 5.07 0.0500 5.00 Total Xylenes 7.59 0.0250 7.50 ND 101 43-135 0.525 0.500 105 70-130 Surrogate: Bromofluorobenzene 0.500 91.7 70-130 Surrogate: 1,2-Dichloroethane-d4 0.459 0.500 70-130 0.516 Surrogate: Toluene-d8 Matrix Spike Dup (2428034-MSD1) Source: E407036-06 Prepared: 07/09/24 Analyzed: 07/09/24 2.37 0.0250 2.50 ND 94.7 48-131 2.46 23 0.0250 2.50 ND 45-135 0.964 27 Ethylbenzene ND 48-130 0.284 24 2.47 2.50 98.6 Toluene 0.0250 o-Xylene 2.60 0.0250 2.50 ND 104 43-135 3.01 27 5.19 5.00 ND 104 43-135 2.38 27 p,m-Xylene 0.0500 27 7.79 0.0250 7.50 ND 104 43-135 2.59 Total Xylenes Surrogate: Bromofluorobenzene 0.532 0.500 106 70-130



0.500

0.500

0.467

0.510

93.3

102

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Mack EnergyProject Name:West Mount #1AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden7/10/20243:12:48PM

	Non	halogenated (Organics l	oy EPA 801	15D - G	RO		A	nalyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2428034-BLK1)						I	Prepared: 0	7/09/24 Analy	zed: 07/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
LCS (2428034-BS2)						I	Prepared: 0	7/09/24 Analy	zed: 07/09/24

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	110 70-130
Surrogate: Bromofluorobenzene	0.527		0.500	105 70-130
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500	94.4 70-130
Surrogate: Toluene-d8	0.520		0.500	104 70-130
75 . 1 . 2 . 10 . (2.10002.1.7522)				G DIOTOGO G D 1 05/00/04 A 1 1 07/00/04

Matrix Spike (2428034-MS2)			Source:	E407036-0)6	Prepared: 07/09/24 Analyzed: 07/09/24	
Gasoline Range Organics (C6-C10)	53.8	20.0	50.0	ND	108	70-130	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130	
Surrogate: Toluene-d8	0.524		0.500		105	70-130	

Matrix Spike Dup (2428034-MSD2)				Source:	E407036-0	06	Prepared: 07	7/09/24 Analyzed: 07/09/24
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130	2.51	20
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130		
Surrogate: Toluene-d8	0.522		0.500		104	70-130		

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/10/2024 3:12:48PM

Artesia NM, 88210		Project Manager	r: Na	ıtalie Gladden	1			7	7/10/2024 3:12:48PM
	Nonha	logenated Or	ganics by	EPA 8015I) - 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
Blank (2428027-BLK1)							Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.9		50.0		114	50-200			
LCS (2428027-BS1)							Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	266	25.0	250		107	38-132			
Gurrogate: n-Nonane	56.7		50.0		113	50-200			
LCS Dup (2428027-BSD1)							Prepared: 0	7/09/24 An	alyzed: 07/10/24
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132	0.786	20	
Surrogate: n-Nonane	57.5		50.0		115	50-200			



Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager	: 20	est Mount #12 0046-0001 atalie Gladder					Reported: 7/10/2024 3:12:48PM
,				300.0/9056 <i>A</i>	\				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2428025-BLK1)							Prepared: 07	7/08/24 A	Analyzed: 07/08/24
Chloride	ND	20.0							
LCS (2428025-BS1)							Prepared: 07	7/08/24 A	Analyzed: 07/08/24
Chloride	254	20.0	250		102	90-110			
LCS Dup (2428025-BSD1)							Prepared: 07	7/08/24 A	Analyzed: 07/08/24
Chloride	255	20.0	250		102	90-110	0.500	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 #1A	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
-	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 15:12

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.



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Address: 2724 NW COOKY TRO Address: 2724 NW COOKY TRO City, State, Zip HOBBS, NM 88240						Analy	sis an	d Meth	od	1	· · · · · ·				KCRA	
Phone: 575-393-9048												1	ļ	State		-
Pitone: Email: NATALIE@ENERGYSTAFFINGE	LC.COM	8015	8015				_						NMI CO	UT AZ	TX	
Email: BRITTNEY@ENERGYSTAFFING	FTC.COM	8	λ 24	8021	097	ខ្ព	300.0		ξ	ı≤				1-1-		
Report due by:	Lab	8	DRO	á	by 8)9 51	Chloride 300.0		g	l g			1	Remarks		
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Additional Instructions:																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislat	elling the say	mpije loc	ation,			Sar	riples re	quiring the	mel pre	servatio	on must	be recei	ved on ice the	day they are sa	mpleć or receivi	:0
date or time of collection is considered fraud and may be grounds for legal action. Sampled by:	drat	e	10			pa	ked in i	ce at an ave	temp a				C an subseque			\dashv
gelinquished by: (sepature) Date 181, 41:30 Referred by: (sepature) Pale 181, 41:30 Referred by: (sepature)	S Date	8-24	LTin	ใจว	O	R	eceiv	ed on i	ce:		y n	Only				
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Michelle Gonzales 7-8-24 1755	Date	0.0		ne	ا. <u>حب</u>	4	<u> </u>									1
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	Conta	iner T	ype: g	g - gla	ss, p	- pol	y/plas	tic, ag -	ambe	r glas	5, V - '	The	nort for the	e analysis of	the above	- 3
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. Hazard	ous samples	will be	retur	ned to	o clier	nt or d	ispose the cer	e o o at tr nort.	is cii6i	н ехр	E1125.	the re	porcio, an	C = , =		

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 tec

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ient: Macdo	Bill To			La	b Us	e On	ly			TA			rogram
ient: // CC/C	Attention: ENERGY STAFFING SERVICE	CES La	ab W)#			Number	1D	2D	3D	Standard	CWA	SDWA
oject: West, mount 19	Address: 2724 NW COUNTY RD	F	40	703			1 000-1					ļ	1 OCDA
oject Manager: L. G. addew	City, State, Zip HOBBS, NM 88240		·	. Y V		Analy	sis and Metho	d					RCRA
ddress:	Phone: 575-393-9048											1	1
ty, State, Zio	Email: NATALIE@ENERGYSTAFFINGLIC.	.COM	2 5	a]					State	1 = 1
tone:	BRUTTNEY@ENERGYSTAFFINGLLO	CCOM	by 8015	2 4			20	Σ			NM CC	UT AZ	- 1X
nail:	BRITINGTWEINERGISTATTATO		5	8021	826	100	P	Σ	≤				
eport due by:		Lab	ě	à à	à	als	Chloride 300.0	8G00C	96000	-		Remark	s
Time Date Matrix No of Containers Sample ID		Number	DRO/ORO	BTEX by 8021	vOC by 8260	Metals 6010	Ğ	Bg.	36	-			
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Olh Note: Samples are discarded 30 days after results are repo		Containe	er Typ	o a al	ass, p	- not	v/olastic ag - i	amber	glass	s, v - V	OA		f the phone

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.

age 510 of

Printed: 7/9/2024 3:01:15PM

Envirotech Analytical Laboratory

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.

we receive	no response concerning these items within 24 hours of t	ne date of this noti	cc, an the s	ampies win be and	nyzeu as requesteu.	
Client:	Mack Energy	Date Received:	07/09/24	11:20	Work Order ID:	E407036
Phone:	(575) 390-6397	Date Logged In:	07/08/24	16:35	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/10/24	17:00 (1 day TAT)	<i>50</i> ,	
	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location mat	ch the COC	Yes			
	imples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Couier</u>	
	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No			
5. Were al	l samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		Yes		Comment	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled is not do	cumented on the
Sample C	ooler				COC by client. West Me	ount 1A has been
	ample cooler received?		Yes		separated into multiple	
	vas cooler received in good condition?		Yes		•	•
9. Was the	sample(s) received intact, i.e., not broken?		Yes		sample volume. WO are	
	custody/security seals present?		No		E407034, E407035 and	E407036.
	were custody/security seals intact?					
•	· · ·		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling risible ice, record the temperature. Actual sample	e received w/i 15	Yes			
	•	temperature. 4 t	<u> </u>			
Sample C			N			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers		Yes			
	ppropriate volume/weight or number of sample contain	iers collected?	Yes			
Field Lab						
	field sample labels filled out with the minimum info	rmation:	Yes			
	umple ID? ate/Time Collected?					
	ollectors name?		Yes No			
Sample P	reservation		110			
21. Does	he COC or field labels indicate the samples were pr	eserved?	No			
	mple(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved m	netals?	No			
	se Sample Matrix					
_	he sample have more than one phase, i.e., multipha	se?	No			
	does the COC specify which phase(s) is to be analy		NA			
-		, 20d.	INA			
	act Laboratory					
	mples required to get sent to a subcontract laborato	-	No			
29. Was a	subcontract laboratory specified by the client and it	so who?	NA	Subcontract Lab	o: NA	
Client In	<u>struction</u>					
						0

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407051

Job Number: 20046-0001

Received: 7/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/11/24

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: 7/11/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407051

Date Received: 7/10/2024 8:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2024 8:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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 #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/11/24 14:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. Comp 59-4'	E407051-01A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 60-4'	E407051-02A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 61-4'	E407051-03A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 62-4'	E407051-04A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 63-4'	E407051-05A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 64-4'	E407051-06A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 65-4'	E407051-07A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 66-4'	E407051-08A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 67-4'	E407051-09A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 68-4'	E407051-10A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SP. Comp 69-4'	E407051-11A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SW. Comp 1-8'	E407051-12A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
SW. Comp 2-8'	E407051-13A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 59-4' E407051-01

		E407051-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		88.2 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		118 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2428048
Chloride	ND	200	10	07/10/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 60-4'

E407051-02							
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043	
Benzene	ND	0.0250	1	07/10/24	07/10/24		
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24		
Toluene	ND	0.0250	1	07/10/24	07/10/24		
o-Xylene	ND	0.0250	1	07/10/24	07/10/24		
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24		
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24		
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	07/10/24	07/10/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	70-130	07/10/24	07/10/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2428045	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24		
Surrogate: n-Nonane		104 %	50-200	07/10/24	07/10/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2428048	
Chloride	ND	100	5	07/10/24	07/10/24		



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 61-4'

J	E40705	1-03	

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		107 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2428048
Chloride	ND	100	5	07/10/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 62-4'

T 40	-			
F.40	71	151	-(14

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		88.3 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
Surrogate: n-Nonane		103 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2428048
Chloride	ND	40.0	2	07/10/24	07/10/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 63-4'

E407051-05 Reporting Analyte Result Limit Dilution Analyzed Notes Prepared Analyst: BA Batch: 2428043 mg/kg mg/kg Volatile Organics by EPA 8021B 07/10/24 07/10/24 ND 0.0250 Benzene 1 07/10/24 07/10/24 Ethylbenzene ND 0.0250ND 0.02501 07/10/24 07/10/24 Toluene 1 07/10/24 07/10/24 ND o-Xylene 0.02501 07/10/24 07/10/24 ND 0.0500 p,m-Xylene 07/10/24 07/10/24 1 Total Xylenes ND 0.025087.7 % 07/10/24 07/10/24 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: BA Batch: 2428043 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 07/10/24 ND 20.0 1 07/10/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 95.8 % 07/10/24 07/10/24 70-130 mg/kg mg/kg Analyst: KM Batch: 2428045 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 07/10/24 07/11/24 Diesel Range Organics (C10-C28) 07/10/24 07/11/24 Oil Range Organics (C28-C36) ND 50.0 1 07/10/24 07/11/24 Surrogate: n-Nonane 112 % 50-200 Analyst: WF Batch: 2428048 Anions by EPA 300.0/9056A mg/kg mg/kg

20.0

1

07/10/24

07/10/24

ND



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 64-4'

E407051-06						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
o,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		88.4 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		95.7 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2428048
Chloride	ND	20.0	1	07/10/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 65-4'

E407051-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		109 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: WF		Batch: 2428048
· · · · · · · · · · · · · · · · · · ·	ND	20.0		07/10/24	07/10/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 66-4'

E40	70	51	-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.3 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		109 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: WF		Batch: 2428048
Chloride	157	20.0	1	07/10/24	07/10/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 67-4'

E407051-09						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.6 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		90.5 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: WF		Batch: 2428048

20.0

ND

07/10/24

07/10/24



Nonhalogenated Organics by EPA 8015D - DRO/ORO

Diesel Range Organics (C10-C28)

Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

Batch: 2428045

Batch: 2428048

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 68-4' E407051-10

Reporting Analyte Result Limit Dilution Analyzed Notes Prepared Analyst: BA Batch: 2428043 mg/kg mg/kg Volatile Organics by EPA 8021B 07/10/24 07/10/24 ND 0.0250 Benzene 1 07/10/24 07/10/24 Ethylbenzene ND 0.0250ND 0.02501 07/10/24 07/10/24 Toluene 1 07/10/24 07/10/24 ND o-Xylene 0.02501 07/10/24 07/10/24 ND 0.0500 p,m-Xylene 07/10/24 07/10/24 1 Total Xylenes ND 0.025089.7 % 07/10/24 07/10/24 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: BA Batch: 2428043 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 07/10/24 ND 20.0 1 07/10/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 97.7 % 07/10/24 07/10/24 70-130

mg/kg

25.0

50.0

mg/kg

20.0

110 %

Analyst: KM

Analyst: WF

1

1

50-200

07/10/24

07/10/24

07/10/24

07/10/24

07/11/24

07/11/24

07/11/24

07/10/24

mg/kg

ND

ND

mg/kg

25.7



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SP. Comp 69-4'

E407051-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg Analyst: BA		lyst: BA		Batch: 2428043	
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.1 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.5 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		107 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: WF		Batch: 2428048
	•		<u> </u>			·



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SW. Comp 1-8'

E407051-12								
		Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043		
Benzene	ND	0.0250	1	07/10/24	07/10/24			
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24			
Toluene	ND	0.0250	1	07/10/24	07/10/24			
o-Xylene	ND	0.0250	1	07/10/24	07/10/24			
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24			
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24			
Surrogate: 4-Bromochlorobenzene-PID		89.4 %	70-130	07/10/24	07/10/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	07/10/24	07/10/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2428045		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24			
Surrogate: n-Nonane		106 %	50-200	07/10/24	07/11/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2428048		
Chloride	ND	20.0	1	07/10/24	07/10/24			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

SW. Comp 2-8'

		E407051-13				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2428043
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.5 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2428045
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/11/24	
Surrogate: n-Nonane		101 %	50-200	07/10/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: WF		Batch: 2428048
Chloride	ND	20.0	1	07/10/24	07/10/24	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden				7	/11/2024 2:16:19PM
		Volatile O	rganics b	oy EPA 8021	В		Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428043-BLK1)							Prepared: 0'	7/10/24 Ana	alyzed: 07/10/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			
LCS (2428043-BS1)]	Prepared: 0'	7/10/24 Ana	alyzed: 07/10/24
Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.3	70-130			
Toluene	4.95	0.0250	5.00		99.0	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
o,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			
LCS Dup (2428043-BSD1)]	Prepared: 0'	7/10/24 Ana	alyzed: 07/10/24
Benzene	5.00	0.0250	5.00		100	70-130	0.611	20	
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130	0.109	20	
Toluene	4.92	0.0250	5.00		98.5	70-130	0.504	20	
o-Xylene	4.78	0.0250	5.00		95.5	70-130	0.0272	20	
o,m-Xylene	9.77	0.0500	10.0		97.7	70-130	0.0737	20	
Total Xylenes	14.5	0.0250	15.0		97.0	70-130	0.0584	20	



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

Artesia NM, 88210		Project Manager		italie Gladden	l			7/1	1/2024 2:16:19PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428043-BLK1)							Prepared: 0	7/10/24 Analy	vzed: 07/10/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			
LCS (2428043-BS2)							Prepared: 0	7/10/24 Analy	zed: 07/10/24
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			
LCS Dup (2428043-BSD2)							Prepared: 0	7/10/24 Analy	zed: 07/10/24
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130	0.123	20	

70-130



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/11/2024 2:16:19PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				7/11/2024 2:16:19PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428045-BLK1)							Prepared: 0	7/10/24 A	nalyzed: 07/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	61.0		50.0		122	50-200			
LCS (2428045-BS1)							Prepared: 0	7/10/24 A	nalyzed: 07/10/24
Diesel Range Organics (C10-C28)	286	25.0	250		114	38-132			
urrogate: n-Nonane	61.2		50.0		122	50-200			
Matrix Spike (2428045-MS1)				Source:	E407047-0	03	Prepared: 0	7/10/24 A	nalyzed: 07/10/24
Diesel Range Organics (C10-C28)	299	25.0	250	ND	119	38-132			
urrogate: n-Nonane	59.1		50.0		118	50-200			
Matrix Spike Dup (2428045-MSD1)				Source:	E407047-	03	Prepared: 0	7/10/24 A	nalyzed: 07/10/24
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132	0.640	20	
'urrogate: n-Nonane	60.2		50.0		120	50-200			



M 1 F		D 1 .37	***						
Mack Energy		Project Name:		est Mount #1A					Reported:
7 W. Compress Road		Project Number:		0046-0001					
Artesia NM, 88210		Project Manager:	N	atalie Gladden					7/11/2024 2:16:19PM
		Anions	by EPA 3	600.0/9056A					Analyst: WF
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428048-BLK1)							Prepared: 0	7/10/24 A	Analyzed: 07/10/24
Chloride	ND	20.0					Trepured. 0	7710/21 1	mary20a. 07/10/21
		20.0							
LCS (2428048-BS1)							Prepared: 0'	7/10/24 <i>A</i>	Analyzed: 07/10/24
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2428048-MS1)				Source: I	E407047-0)2	Prepared: 0	7/10/24 A	Analyzed: 07/10/24
Chloride	268	20.0	250	23.6	97.6	80-120			
Matrix Spike Dup (2428048-MSD1)				Source: I	E407047-0)2	Prepared: 0	7/10/24 A	Analyzed: 07/10/24
Chloride	268	20.0	250	23.6	97.8	80-120	0.198	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 #1A	
-	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/11/24 14:16

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

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Additional Instru	ctions:		`	•																		
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Note: Samples are d	iscarded 30	0 days afte	r results are re	ported unless	otner arra with this	COC. The liability of the	laboratory	, is limite	d to th	e amo	ount p	aid fo	or on th	he re	part.							
samples is applicable	e only to th	iose sampi	es received by	the laboratory	y 171111 11113								Age -	بدر	_	Files 172	erita ta	R. <i>60</i> 7	(G)	9 200.		
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample I	ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals 6010	Chloride 300.		ВСБОС	BGDOC				Remarks	
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Addition	nal Instruc	tions:																					
			y and authenti					or intentionally mislabelli	ing the sample	e locati	on,										ice the day th	ney are sample	d or received
	ed by: (Signa	ature)	Date 07	108/24	Time		Redeived by: (signed)	e Gonzales	Date 7-9-	14	Time	13	7	Rece	eived	on ice:		ab Us	se On	ly			EDAY.
Refrequish	ed booksigns	Aure)	n Date		Time	25	Received by: (Sig	gnature)	Date Date		Time			T1						T3	3		
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						less oth	er arrangements a	re made. Hazardous :												eport fo	r the anal	ysis of the a	above
								hility of the laborator															****



Printed: 7/10/2024 2:24:09PM

Envirotech Analytical Laboratory

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:	07/10/24 08	:30	W	ork Order ID:	E407051
Phone:	(575) 390-6397	Date Logged In:	07/09/24 17	:28	Le	ogged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/11/24 17	:00 (1 day TAT)			
Chain of	Custody (COC)						
	te sample ID match the COC?		Yes				
	the number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Couier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	Il samples received within holding time?	-	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			,		Comments	:/Resolution
	urn Around Time (TAT)				Droject mana	gar and tim	e sampled are not
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		I -	_	-
Sample C					listed on the	COC by cli	ent.
	ample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4°C	<u>~</u>				
Sample C			3.7				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA 				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	iers collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	rmation:	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		Yes				
Sample P	reservation_						
21. Does t	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
	act Laboratory						
	umples required to get sent to a subcontract laborato	ru?	No				
	subcontract laboratory specified by the client and if	-		Subcontract Lab	v MA		
		30 WIIO:	1421	subcontract Lab). NA		
Client In	struction						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407062

Job Number: 20046-0001

Received: 7/11/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/12/24

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: 7/12/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407062

Date Received: 7/11/2024 10:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/11/2024 10:30:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Donoutod.
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/12/24 14:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW. Comp. 3-8'	E407062-01A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 4-10'	E407062-02A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 5-6'	E407062-03A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 6-4'	E407062-04A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 7-4'	E407062-05A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 8-8'	E407062-06A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 9-6'	E407062-07A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
SW. Comp. 10-4'	E407062-08A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.



Report to:

Natalie Gladden





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407082

Job Number: 20046-0001

Received: 7/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/15/24

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: 7/15/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407082

Date Received: 7/12/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/12/2024 9:00:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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

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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/15/24 15:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp. Comp. 70-4'	E407082-01A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sp. Comp. 71-4'	E407082-02A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sp. Comp. 72-4'	E407082-03A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 11-4'	E407082-04A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 12-4'	E407082-05A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 13-4'	E407082-06A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 14-4'	E407082-07A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 15-4'	E407082-08A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 16-4'	E407082-09A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
Sw. Comp. 17-4'	E407082-10A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sp. Comp. 70-4' E407082-01

		E40/082-01				
A. 1.	D. Iv	Reporting	D.1 .:	D 1		N
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Coluene	ND	0.0250	1	07/12/24	07/15/24	
-Xylene	ND	0.0250	1	07/12/24	07/15/24	
,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/12/24	
Surrogate: n-Nonane		96.8 %	50-200	07/12/24	07/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2428092
Chloride	193	20.0	1	07/12/24	07/12/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sp. Comp. 71-4'

		E407082-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		lyst: IY	rmaryzed	Batch: 2428088
Volatile Organics by EPA 8021B Benzene	ND	0.0250	1	07/12/24	07/15/24	Batch: 2 120000
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		90.1 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		87.6 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2428092
Chloride	ND	100	5	07/12/24	07/12/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sp. Comp. 72-4'

E407082-03							
Reporting Analyte Result Limit Dilution Prepared Analyzed Notes							
Analyte	Result	Limit	Dilutio	n Prepared	Anaiyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2428088	
Benzene	ND	0.0250	1	07/12/24	07/15/24		
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24		
Toluene	ND	0.0250	1	07/12/24	07/15/24		
o-Xylene	ND	0.0250	1	07/12/24	07/15/24		
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24		
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24		
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	07/12/24	07/15/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2428088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	07/12/24	07/15/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2428093	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24		
Surrogate: n-Nonane		103 %	50-200	07/12/24	07/13/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428092	

100

ND

5

07/12/24

07/12/24



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 11-4'

E407082-04						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		105 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2428092
Chloride	23.0	20.0	1	07/12/24	07/12/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 12-4'

E407082-05

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		89.3 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		100 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428092
	182	20.0		07/12/24	07/12/24	



Sample Data

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 13-4'

		E407082-06				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		102 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428092
Chloride	ND	100	5	07/12/24	07/12/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 14-4'

E407082-07

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		90.3 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2428092
Chloride	ND	100	5	07/12/24	07/12/24	•



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 15-4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		97.0 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2428092
Chloride	ND	40.0	2	07/12/24	07/12/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 16-4' E407082-09

		E-10/002-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
Surrogate: n-Nonane		97.5 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2428092
Chloride	ND	100	5	07/12/24	07/12/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Sw. Comp. 17-4' E407082-10

Analyzed 07/15/24 07/15/24 07/15/24 07/15/24	Notes Batch: 2428088
07/15/24 07/15/24	Batch: 2428088
07/15/24 07/15/24	
07/15/24	
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07/15/24	
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	Batch: 2428088
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	Batch: 2428093
07/13/24	
07/13/24	
07/13/24	
	Batch: 2428092
	07/15/24 07/15/24 07/15/24 07/13/24 07/13/24



		•	
Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	4.
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM
	Volatile Orga	nics by EPA 8021B	Analyst: IY

7 H C S L 7 (171), 002 10		Troject Manage	1. 1.,	atune Giuddei	•						
	Volatile Organics by EPA 8021B										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2428088-BLK1)]	Prepared: 0	7/12/24 Ana	llyzed: 07/15/24		
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	7.35		8.00		91.8	70-130					
LCS (2428088-BS1)						1	Prepared: 0	7/12/24 Ana	alyzed: 07/15/24		
Benzene	4.55	0.0250	5.00		91.0	70-130					
Ethylbenzene	4.39	0.0250	5.00		87.8	70-130					
Toluene	4.49	0.0250	5.00		89.9	70-130					
o-Xylene	4.37	0.0250	5.00		87.4	70-130					
p,m-Xylene	8.92	0.0500	10.0		89.2	70-130					
Total Xylenes	13.3	0.0250	15.0		88.6	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130					
LCS Dup (2428088-BSD1)						1	Prepared: 0	7/12/24 Ana	lyzed: 07/15/24		
Benzene	4.70	0.0250	5.00		94.0	70-130	3.24	20			
Ethylbenzene	4.54	0.0250	5.00		90.7	70-130	3.29	20			
Toluene	4.64	0.0250	5.00		92.7	70-130	3.10	20			
o-Xylene	4.51	0.0250	5.00		90.2	70-130	3.25	20			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130	3.10	20			
Total Xylenes	13.7	0.0250	15.0		91.4	70-130	3.15	20			
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.7	70-130					



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1			7/	15/2024 3:06:35PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			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
Blank (2428088-BLK1)							Prepared: 0	7/12/24 Ana	lyzed: 07/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		96.9	70-130			
LCS (2428088-BS2)							Prepared: 0	7/12/24 Ana	lyzed: 07/15/24
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			
LCS Dup (2428088-BSD2)							Prepared: 0	7/12/24 Ana	lyzed: 07/15/24
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130	3.24	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/15/2024 3:06:35PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	ı				7/15/2024 3:06:35PM
	Nonhal	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428093-BLK1)							Prepared: 0	7/12/24 Ar	nalyzed: 07/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.4		50.0		127	50-200			
LCS (2428093-BS1)							Prepared: 0	7/12/24 Ar	nalyzed: 07/12/24
Diesel Range Organics (C10-C28)	318	25.0	250		127	38-132			
Surrogate: n-Nonane	65.4		50.0		131	50-200			
Matrix Spike (2428093-MS1)				Source:	E407078-0	02	Prepared: 0	7/12/24 Ar	nalyzed: 07/12/24
Diesel Range Organics (C10-C28)	318	25.0	250	ND	127	38-132			
Surrogate: n-Nonane	64.3		50.0		129	50-200			
Matrix Spike Dup (2428093-MSD1)				Source:	E407078-0	02	Prepared: 0	7/12/24 Ar	nalyzed: 07/12/24
Diesel Range Organics (C10-C28)	321	25.0	250	ND	128	38-132	0.900	20	
Surrogate: n-Nonane	65.8		50.0		132	50-200			



M 1 F		D 1 . 37	77.	3.6					
Mack Energy		Project Name:		est Mount #1A					Reported:
7 W. Compress Road		Project Number:		046-0001					
Artesia NM, 88210		Project Manager:	: N	atalie Gladden					7/15/2024 3:06:35PM
		Anions	by EPA 3	00.0/9056A					Analyst: DT
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428092-BLK1)							Prepared: 0	7/12/24 <i>A</i>	Analyzed: 07/12/24
Chloride	ND	20.0							
LCS (2428092-BS1)							Prepared: 0	7/12/24 <i>A</i>	Analyzed: 07/12/24
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2428092-MS1)				Source: I	E 407077- 0)2	Prepared: 0	7/12/24 <i>A</i>	Analyzed: 07/12/24
Chloride	362	20.0	250	105	103	80-120			
Matrix Spike Dup (2428092-MSD1)				Source: I	E 407077- 0)2	Prepared: 0	7/12/24 <i>A</i>	Analyzed: 07/12/24
Chloride	353	20.0	250	105	99.3	80-120	2.34	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/15/24 15:06

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
Client: MUCK

	Chain	of	Custody
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1	Page	_ of	
١	EPA Pr	ogram	
1	CWA	SDWA	
1		RCRA	
_	State		
-	LIT AZ	TVI	1

Bill To		ı	. <u>.</u>	Lah	Use	Only	,				T,A.		EPA Pr	
ent: 1910 C CHAUST	SERVICES	Lab V	VO#		10	ob N	umbe		1D	2D]	3D	Standard	CWA	SDWA
Address: 2724 NW COUNTY RD)	E 4	07	82				-0001						RCRA
City, State, Zip HOBBS, NM 88	8240				A	nalys	is and	Method	j 					NCR/
Phone: 575-393-9048				1		- 1	-	-			1		State	!
tone: Email: NATALIE@ENERGYSTAPPU	NGLLC.COM	8015	8015	1			,	-			l	NMI,C	O UT AZ	TX
nail: BRETENEY@ENERGYSTAFF	FINGLLC.COM	λά	GRO/DRO by 8	втех ъу 8021	vOC by 8260	Metals 6010	Chloride 300.0		ξ	×		V		
eport due by:	Lab	DRO/ORO by	/DRC	à	<u>۾</u> .	als 6	ige		BGOOC	ğ			Remarks	
Time Date Matrix Containers Sample ID	Number	ORO	GRO	BTE)	Š	Mer	<u> </u>		Bg	верос				
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07/10 S 1 SP. Comp. 71-4'	a								\ <u>\</u>	1_				
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07/10 S 1 SW. Comp. 11 - 4'	5	1	1						~	/				
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07/10 S 1 SW. COMP. 13-4"	<u> </u>		-	-					\ <u>\</u>	\star	+			
07/10 S 1 SW. COMP. 14-4'	1		-	-	-		 		1	-	-	-	·····	
07/10 S 1 Sw. Comp. 15-4'	8			-	-				-	-	+-	+		
07/10 S 1 Sw. Comp. 16-4'	9			-		-	-		~		-			
07/10 S 1 SW. COMP 17-4'	10						<u> </u>							
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally r	mislabelling the san	pole loca	ation,			Sauck	ples requ ed in ice	iring thern at an ave t	al presi emp ab	rvation ove O but	must be ticss th	received on ice than 6 °C on subseq	re day they are sa vent days	mpiec or receiv
date or time of collection is considered trade and may be greated for regar action.	a Date		Tin			1-				Lab	Use (
5. Xevez 07/10/24 Michaelle Gonz	ries 7-1 Date	1-24	Tin		20	Re	ceive	d on ice	e:	V	N			
Relinquished by: (Signature) Date Time Received by: (Signature)	Po 7.1	(•24		170	0	<u></u>			_ 1	2		<u>T3</u>		
Relinguished by: (Signature) Received by: (Signature) 7.11.24 2330 Received by: (Signature)	Date	1124	Tir	90	0	AV	/G Te	mp °C_	4					
Chadles 10 St. Studge 0. Aqueque 0. Other	Canta	inar To	uno: n	- glas	is, p -	nolvi	/nlasti	c. ag - a	mber	giass,	v - V(OA .	he applying	the above
Sample Matrix: S · Soil, Sd · Solid, Sg · Sludge, A · Aqueous, O · Other	azardous samples	will be	retur	ned to	client	or dis	sposed	of at the	clien	expen	ise. T	he report for t	ine anaiysis oi	THE SHOWE
Note: Samples are discarded 30 days after results are reported unless titler arrangements are the last samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory	laboratory is limite	ed to th	ne am	ount p	aid for	on th	те герс	ort.				<u> </u>		
						1	الجب			A C		i ra	n e	
						M			B	H /	(A)		9	

Printed: 7/15/2024 2:25:50PM

Envirotech Analytical Laboratory

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.

	<u> </u>						
Client:	Mack Energy	Date Received:	07/12/24 09:	00	W	Vork Order ID:	E407082
Phone:	(575) 390-6397	Date Logged In:	07/12/24 00:	00	L	ogged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	07/15/24 17:	00 (1 day TAT)			
	Custody (COC) ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC					
	amples dropped off by client or carrier?	ion the coc	Yes Yes	a : a			
	e COC complete, i.e., signatures, dates/times, reque	etad analyseas?	No	Carrier: <u>C</u>	<u>ourrier</u>		
	Il samples received within holding time?	sted allaryses:	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		ies	Γ		Comment	rs/Resolution
	furn Around Time (TAT)		37		Project mana	oger and tin	ne sampled are not
	COC indicate standard TAT, or Expedited TAT?		Yes		_	_	-
Sample C					listed on the	COC by ci	ient.
	ample cooler received?		Yes				
• .	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
		ilers collected:	103				
Field Lab	net field sample labels filled out with the minimum info	rmation:					
	ample ID?	illiation.	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
Sample P	reservation_						
21. Does t	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
_	the sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
		,	1411				
	act Laboratory	0	NT.				
	amples required to get sent to a subcontract laborato	-	No		27.4		
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA S	ubcontract Lab	o: NA		
Client In	struction						
		·					

Date

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 3-8' E407062-01

	E40/002-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2428073
ND	0.0250	1	07/11/24	07/11/24	
ND	0.0250	1	07/11/24	07/11/24	
ND	0.0250	1	07/11/24	07/11/24	
ND	0.0250	1	07/11/24	07/11/24	
ND	0.0500	1	07/11/24	07/11/24	
ND	0.0250	1	07/11/24	07/11/24	
	87.7 %	70-130	07/11/24	07/11/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2428073
ND	20.0	1	07/11/24	07/11/24	
	96.4 %	70-130	07/11/24	07/11/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2428077
ND	25.0	1	07/11/24	07/12/24	
ND	50.0	1	07/11/24	07/12/24	
	126 %	50-200	07/11/24	07/12/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2428078
131	100	5	07/11/24	07/11/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 87.7 % mg/kg mg/kg mg/kg ND 20.0 96.4 % mg/kg ND 25.0 ND 50.0 126 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 87.7 % 70-130 mg/kg mg/kg Anal ND 20.0 1 96.4 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 126 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Manalyst: IY ND 0.0250 1 07/11/24 ND 0.0250 1 07/11/24 ND 0.0250 1 07/11/24 ND 0.0250 1 07/11/24 ND 0.0500 1 07/11/24 ND 0.0250 1 07/11/24 mg/kg mg/kg Analyst: IY ND 20.0 1 07/11/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/11/24 ND 25.0 1 07/11/24 ND 50.0 1 07/11/24 ND 50.0 1 07/11/24 mg/kg mg/kg Analyst: NV	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/11/24 07/11/24 ND 0.0250 1 07/11/24 07/11/24 ND 0.0250 1 07/11/24 07/11/24 ND 0.0500 1 07/11/24 07/11/24 ND 0.0250 1 07/11/24 07/11/24 ND 0.0250 1 07/11/24 07/11/24 Mg/kg mg/kg Analyst: IV 07/11/24 07/11/24 Mg/kg mg/kg Analyst: IV 07/11/24 07/11/24 Mg/kg mg/kg Analyst: NV ND 25.0 1 07/11/24 07/11/24 ND 25.0 1 07/11/24 07/12/24 07/12/24 ND 50.0 1 07/11/24 07/12/24 ND 50.0 1 07/11/24 07/12/24 ND

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 4-10'

		E407062-02					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: IY		Batch: 2428073	
Benzene	ND	0.0250	1	07/11/24	07/11/24		
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24		
Toluene	ND	0.0250	1	07/11/24	07/11/24		
o-Xylene	ND	0.0250	1	07/11/24	07/11/24		
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24		
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24		
Surrogate: 4-Bromochlorobenzene-PID		87.4 %	70-130	07/11/24	07/11/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2428073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	07/11/24	07/11/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: NV		Batch: 2428077	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24		
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24		
Surrogate: n-Nonane		123 %	50-200	07/11/24	07/12/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2428078	
Chloride	ND	200	10	07/11/24	07/11/24		



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 5-6'

E407062-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID		87.6 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24	
Surrogate: n-Nonane		129 %	50-200	07/11/24	07/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2428078
Chloride	ND	200	10	07/11/24	07/11/24	•



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 6-4'

E407062-04

		2107002 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID		87.8 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24	
Surrogate: n-Nonane		126 %	50-200	07/11/24	07/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2428078
Chloride	ND	200	10	07/11/24	07/11/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 7-4'

		E407062-05						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2428073		
Benzene	ND	0.0250	1	07/11/24	07/11/24			
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24			
Toluene	ND	0.0250	1	07/11/24	07/11/24			
o-Xylene	ND	0.0250	1	07/11/24	07/11/24			
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24			
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24			
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	07/11/24	07/11/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2428073		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.2 %	70-130	07/11/24	07/11/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2428077		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24			
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24			
Surrogate: n-Nonane		125 %	50-200	07/11/24	07/12/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2428078		
Chloride	ND	200	10	07/11/24	07/11/24			



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 8-8'

E407062-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID		86.9 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24	
Surrogate: n-Nonane		119 %	50-200	07/11/24	07/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2428078
	ND	200	10	07/11/24	07/11/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 9-6'

E407062-07

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID		88.3 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24	
Surrogate: n-Nonane		118 %	50-200	07/11/24	07/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2428078
	ND	40.0	2	07/11/24	07/11/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

SW. Comp. 10-4' E407062-08

		E40/062-08				
Aughte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilution	rrepared	Analyzed	notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
Surrogate: 4-Bromochlorobenzene-PID		87.2 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/12/24	
Surrogate: n-Nonane		123 %	50-200	07/11/24	07/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2428078
Chloride	ND	100	5	07/11/24	07/11/24	



		QC S	umma	ary Data	l				
Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount #1 <i>A</i>	1				Reported:
Artesia NM, 88210		Project Manager:		atalie Gladden					7/12/2024 2:38:49PM
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428073-BLK1)							Prepared: 0	7/11/24 A	analyzed: 07/11/24
Benzene	ND	0.0250					-		
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			
LCS (2428073-BS1)							Prepared: 0	7/11/24 A	analyzed: 07/11/24
Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.79	0.0250	5.00		95.9	70-130			
o-Xylene	4.65	0.0250	5.00		93.0	70-130			
,m-Xylene	9.53	0.0500	10.0		95.3	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			
Matrix Spike (2428073-MS1)				Source:	E407062-	05	Prepared: 0	7/11/24 A	analyzed: 07/11/24
Benzene	5.11	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133			
Coluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131			
o,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.8	70-130			
Matrix Spike Dup (2428073-MSD1)				Source:	E407062-	05	Prepared: 0	7/11/24 A	analyzed: 07/11/24
Benzene	4.72	0.0250	5.00	ND	94.3	54-133	8.04	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.3	61-133	7.76	20	
Toluene	4.66	0.0250	5.00	ND	93.2	61-130	7.90	20	
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131	7.87	20	
p,m-Xylene	9.30	0.0500	10.0	ND	93.0	63-131	7.53	20	
T . 137 1	12.0	0.0050	150	NID	02.2	(2.121	7.64	20	



13.8

7.18

0.0250

15.0

8.00

ND

92.3

63-131

70-130

7.64

20

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	-
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			7	7/12/2024 2:38:49PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			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
Blank (2428073-BLK1)							Prepared: 0	7/11/24 An	alyzed: 07/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			
LCS (2428073-BS2)							Prepared: 0	7/11/24 An	alyzed: 07/11/24
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			
Matrix Spike (2428073-MS2)				Source:	E407062-	05	Prepared: 0	7/11/24 An	alyzed: 07/11/24
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			
Matrix Spike Dup (2428073-MSD2)				Source:	E407062-	05	Prepared: 0	7/11/24 An	alyzed: 07/11/24
Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130	0.404	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/12/2024 2:38:49PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1				7/12/2024 2:38:49PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428077-BLK1)							Prepared: 0	7/11/24 Aı	nalyzed: 07/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	64.5		50.0		129	50-200			
LCS (2428077-BS1)							Prepared: 0	7/11/24 Aı	nalyzed: 07/11/24
Diesel Range Organics (C10-C28)	302	25.0	250		121	38-132			
Surrogate: n-Nonane	61.3		50.0		123	50-200			
Matrix Spike (2428077-MS1)				Source:	E407062-	04	Prepared: 0	7/11/24 Aı	nalyzed: 07/11/24
Diesel Range Organics (C10-C28)	306	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	63.6		50.0		127	50-200			
Matrix Spike Dup (2428077-MSD1)				Source:	E407062-	04	Prepared: 0	7/11/24 Aı	nalyzed: 07/11/24
Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132	2.84	20	
Surrogate: n-Nonane	63.3		50.0		127	50-200			



Mack Energy		Project Name:		est Mount #1	A				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladden					7/12/2024 2:38:49PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2428078-BLK1)							Prepared: 0	7/11/24 A	nalyzed: 07/11/24
Chloride	ND	20.0							
LCS (2428078-BS1)							Prepared: 0	7/11/24 A	nalyzed: 07/11/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2428078-MS1)				Source:	E407061-	01	Prepared: 0	7/11/24 A	nalyzed: 07/11/24
Chloride	320	20.0	250	61.9	103	80-120			
Matrix Spike Dup (2428078-MSD1)				Source:	E407061-)1	Prepared: 0	7/11/24 A	nalyzed: 07/11/24
Chloride	319	20.0	250	61.9	103	80-120	0.264	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

ſ	Mack Energy	Project Name:	West Mount #1A	
1	7 W. Compress Road	Project Number:	20046-0001	Reported:
1	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/12/24 14:38

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.



	eceived by OCD: 3/10/2023 12:00:30 AI
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Client: Mo Project: M	MCK C	neryy) <u>—</u>			Attention: ENI	ERGY STAFFING SERV	ICES	Lab V	NO#	<u> </u>	~ [lob N	lumb	$\omega_{\rm er}$	1 1D	2D	3D	Sta	ndard	CWA	SDW	/A
Project Ma	USGEL.	דיוענו.			1 1	Address 2774	NW COUNTY RD		EU	0	<u>a</u>	9	<u>30</u>	<u>70</u>	شم	<u> </u>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		 	RCR	₹A
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City, State, Zip					1 1	Phone: 575-393-9048							Ì	1	1	1	1				State		
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Email:						BRITTNEY@ENERGYSTAFFINGLLC.COM					120	3	9	90.4		ξ	×					1	
Report due	by:					<u> </u>		 -	1 8	DRO	20 /2	× 6)s 6C	5		8	l k				D		
Time	Date Sampled	Matrix	No of Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		86000	98000	-	-		Remar		
6	NA	5	1	SW.	DMD	. 3 - 8'		1					<u> </u>				1	-	-	<u> </u>			
C	7/09	S	,	541.0	ma'	p. 4-10°		a							 	ν	1	-	-				
	7/09	S	1	SW. C	האאם האאם	5.6		3									1	-		-			
	77/09	S	1	3		z. W - 4'		4				<u> </u>					1	_		-			
	η/ ₀₉	S	 			p 7-4'		5		_	_		_	_	1	_	4	_					
	77/09	<u> </u>	1	ŧ		5, 8-8'		0			_	1_		-	1	-	4		-				
	77/04	S	1	1		9-U		7			_	_				_ \	//	-		 			
	77/09	S	1			P. 10-4		8			_					· · ·		\perp	-	 			
						\						_	_ _				_		_				
Addition				1																and on ice 41	e day they are	sameled or	, tec
i, (field samp	iler), attest t	o the valida	ty and autho	enticity of this sam	ple. I arr	aware that tamperin	ng with or intentionally mislab	elling the san	iple loc	ation,			San	iples re ked in i	quiring th	ermal pre ve temp a	bove 0 t	out less t	ihan 6°C	ou snosean	ent days		
Relinquishe	d by: (Sign	ature)	Da	7/04/24	lime	Received Wic	by: (Signature) by: (Signature)	Date 7-10		'	14 (05	Re	eceiv	ed on	ice:		b Use V N	Only				

Mithelle 19 3 - 10.24 Received by: (Signature) **Clexa Michaels** Date Relinquished by: (Signature) AVG Temp °C

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.

Page 18 of

Printed: 7/11/2024 3:03:38PM

Envirotech Analytical Laboratory

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:	07/11/24 10::	30	Work Orde	er ID:	E407062
Phone:	(575) 390-6397	Date Logged In:	07/10/24 15:	48	Logged In	By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/12/24 17:	00 (1 day TAT)			
	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes	г	<u>Cor</u>	nmen	ts/Resolution
	Furn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		Project manager ar	nd tin	ne sampled are not
	· •		103		listed on the COC		-
Sample C	contersion is a content of the conte		Yes		nsica on the COC	by Ci	ilent.
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
	* ` '		Yes				
	custody/security seals present?		No				
· ·	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C		<u> </u>	<u>~</u>				
_	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers'	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat			145				
	field sample labels filled out with the minimum info	ormation.					
	ample ID?	, i i i i i i i i i i i i i i i i i i i	Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		No				
Sample P	<u>reservation</u>						
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
<u>Multipha</u>	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborato	ry?	No				
	subcontract laboratory specified by the client and is	•		ubcontract Lab	: NA		
	struction						
							0

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407104

Job Number: 20046-0001

Received: 7/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/16/24

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: 7/16/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407104

Date Received: 7/15/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2024 9:00:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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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Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/16/24 14:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW. Comp 18 - 4'	E407104-01A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 19 - 4'	E407104-02A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 20 - 4'	E407104-03A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 21 - 4'	E407104-04A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 22 - 4'	E407104-05A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 23 - 4'	E407104-06A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 24 - 4'	E407104-07A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 25 - 4'	E407104-08A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 26 - 4'	E407104-09A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 27 - 4'	E407104-10A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SW. Comp 28 - 4'	E407104-11A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 18 - 4' E407104-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2429001
Benzene	ND	0.0250	1	1	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250	1	1	07/15/24	07/15/24	
Toluene	ND	0.0250	1	1	07/15/24	07/15/24	
o-Xylene	ND	0.0250	1	1	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500	1	1	07/15/24	07/15/24	
Total Xylenes	ND	0.0250	1	1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		103 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		103 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/15/24	07/15/24	
Surrogate: n-Nonane		90.6 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2429007
Chloride	ND	100	-	5	07/15/24	07/15/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 19 - 4' E407104-02

		E40/104-02					
Austra	Result	Reporting Limit		ution	Dunand	A la d	Notes
Analyte	Result	Limit	Dill	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2429001
Benzene	ND	0.0250		1	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250		1	07/15/24	07/15/24	
Toluene	ND	0.0250		1	07/15/24	07/15/24	
o-Xylene	ND	0.0250		1	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500		1	07/15/24	07/15/24	
Total Xylenes	ND	0.0250		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		107 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		103 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		107 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		103 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0		1	07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0	:	1	07/15/24	07/15/24	
Surrogate: n-Nonane		81.0 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2429007
Chloride	ND	20.0		1	07/15/24	07/15/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 20 - 4' E407104-03

D. It	Reporting			D 1		N.
Kesult	Limit	Dıl	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	IY		Batch: 2429001
ND	0.0250		1	07/15/24	07/15/24	
ND	0.0250		1	07/15/24	07/15/24	
ND	0.0250		1	07/15/24	07/15/24	
ND	0.0250		1	07/15/24	07/15/24	
ND	0.0500		1	07/15/24	07/15/24	
ND	0.0250		1	07/15/24	07/15/24	
	107 %	70-130		07/15/24	07/15/24	
	92.5 %	70-130		07/15/24	07/15/24	
	101 %	70-130		07/15/24	07/15/24	
mg/kg	mg/kg		Analyst:	IY		Batch: 2429001
ND	20.0		1	07/15/24	07/15/24	
	107 %	70-130		07/15/24	07/15/24	
	92.5 %	70-130		07/15/24	07/15/24	
	101 %	70-130		07/15/24	07/15/24	
mg/kg	mg/kg		Analyst	NV		Batch: 2429008
ND	25.0		1	07/15/24	07/15/24	
ND	50.0		1	07/15/24	07/15/24	
	82.1 %	50-200		07/15/24	07/15/24	
mg/kg	mg/kg		Analyst	DT		Batch: 2429007
ND	100	•	5	07/15/24	07/15/24	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ID 0.0250 ID 92.5 % ID 6 ID 8 ID 20.0 ID 82.5 % ID 10 Mg/kg mg/kg ND 25.0 ND 50.0 82.1 % mg/kg mg/kg mg/kg	Result Limit Dil mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 107 % 70-130 92.5 % 70-130 101 % 70-130 mg/kg mg/kg ND 20.0 107 % 70-130 92.5 % 70-130 101 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 82.1 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 107 % 70-130 92.5 % 70-130 101 % 70-130 mg/kg mg/kg Analyst: ND 20.0 1 101 % 70-130 1 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 82.1 % 50-200 mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/15/24 ND 0.0250 1 07/15/24 ND 0.0250 1 07/15/24 ND 0.0250 1 07/15/24 ND 0.0500 1 07/15/24 ND 0.0250 1 07/15/24 ND 70-130 07/15/24 92.5 % 70-130 07/15/24 101 % 70-130 07/15/24 mg/kg mg/kg Analyst: IY ND 20.0 1 07/15/24 92.5 % 70-130 07/15/24 92.5 % 70-130 07/15/24 101 % 70-130 07/15/24 101 % 70-130 07/15/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/15/24 ND 50.0 1 07/15/24 82.1 %	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/15/24 07/15/24 ND 0.0500 1 07/15/24 07/15/24 ND 0.0250 1 07/15/24 07/15/24 ND 0.0250 1 07/15/24 07/15/24 ND 70-130 07/15/24 07/15/24 07/15/24 92.5 % 70-130 07/15/24 07/15/24 07/15/24 mg/kg mg/kg Analyst: NV ND 20.0 1 07/15/24 07/15/24 07/15/24 mg/kg mg/kg Analyst: NV ND 25.0 1 07/15/24 07/15/24 07/15/24 ND 50.0 1 07/15/24 07/15/24



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 21 - 4'

E407104-04							
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2429001
Benzene	ND	0.0250	1		07/15/24	07/15/24	
Ethylbenzene	ND	0.0250	1	!	07/15/24	07/15/24	
Toluene	ND	0.0250	1	!	07/15/24	07/15/24	
o-Xylene	ND	0.0250	1		07/15/24	07/15/24	
p,m-Xylene	ND	0.0500	1	l	07/15/24	07/15/24	
Total Xylenes	ND	0.0250	1	ļ	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		104 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		104 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: NV	7		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0	1		07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1		07/15/24	07/15/24	
Surrogate: n-Nonane		90.3 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2429007



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 22 - 4'

E407104-05 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2429001 mg/kg mg/kg **Volatile Organic Compounds by EPA 8260B** 07/15/24 07/15/24 ND 0.0250 Benzene 1 07/15/24 07/15/24 Ethylbenzene ND 0.0250ND 0.0250 07/15/24 07/15/24 Toluene 1 07/15/24 07/15/24 o-Xylene ND 0.025007/15/24 07/15/24 ND 0.0500 1 p,m-Xylene 07/15/24 07/15/24 1 Total Xylenes ND 0.0250 07/15/24 107 % 07/15/24 Surrogate: Bromofluorobenzene 70-130 07/15/24 Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 07/15/24 Surrogate: Toluene-d8 102 % 70-130 07/15/24 07/15/24 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2429001 ND 1 07/15/24 07/15/24 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 107 % 07/15/24 07/15/24 70-130 92.9 % 07/15/24 07/15/24 Surrogate: 1,2-Dichloroethane-d4 70-130 Surrogate: Toluene-d8 07/15/24 07/15/24 102 % 70-130 mg/kg Analyst: NV Batch: 2429008 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 07/15/24 07/15/24 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 1 07/15/24 07/15/24 Oil Range Organics (C28-C36) 91.5 % 50-200 07/15/24 07/15/24 Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: DT Batch: 2429007

20.0

ND

1

07/15/24

07/15/24



Chloride

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 23 - 4'

		E407104-06					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2429001
Benzene	ND	0.0250		1	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250		1	07/15/24	07/15/24	
Toluene	ND	0.0250		1	07/15/24	07/15/24	
o-Xylene	ND	0.0250		1	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500		1	07/15/24	07/15/24	
Total Xylenes	ND	0.0250		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		93.4 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		95.4 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		93.4 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		95.4 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0		1	07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/15/24	07/15/24	
Surrogate: n-Nonane		73.6 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2429007
Chloride	ND	100	:	5	07/15/24	07/15/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 24 - 4'

		E407104-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2429001
Benzene	ND	0.0250		1	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250		1	07/15/24	07/15/24	
Toluene	ND	0.0250		1	07/15/24	07/15/24	
o-Xylene	ND	0.0250		1	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500		1	07/15/24	07/15/24	
Total Xylenes	ND	0.0250		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		92.3 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		96.2 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		92.3 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		96.2 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0		1	07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/15/24	07/15/24	
Surrogate: n-Nonane		86.3 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2429007
Chloride	ND	100		5	07/15/24	07/15/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 25 - 4'

E407104-08

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2429001
Benzene	ND	0.0250	1	l	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250	1	l	07/15/24	07/15/24	
Toluene	ND	0.0250	1	l	07/15/24	07/15/24	
o-Xylene	ND	0.0250	1	l	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500	1	l	07/15/24	07/15/24	
Total Xylenes	ND	0.0250	1	l	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		91.9 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		94.8 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		91.9 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		94.8 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0	1		07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	07/15/24	07/15/24	
Surrogate: n-Nonane		85.1 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2429007



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 26 - 4' E407104-09

		E40/104-09					
	D. I.	Reporting			D 1		N
Analyte	Result	Limit	Dılı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2429001
Benzene	ND	0.0250		1	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250		1	07/15/24	07/15/24	
Toluene	ND	0.0250		1	07/15/24	07/15/24	
o-Xylene	ND	0.0250		1	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500		1	07/15/24	07/15/24	
Total Xylenes	ND	0.0250		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		93.9 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		94.6 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		93.9 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		94.6 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0		1	07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0	<u> </u>	1	07/15/24	07/15/24	
Surrogate: n-Nonane		92.1 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2429007
Chloride	ND	100		5	07/15/24	07/15/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 27 - 4' E407104-10

		E40/104-10					
Anglyta	Result	Reporting Limit		ution	Proporad	Analyzad	Notes
Analyte	Resuit	Limit	Dill	uuon	Prepared	Analyzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2429001
Benzene	ND	0.0250		1	07/15/24	07/15/24	
Ethylbenzene	ND	0.0250		1	07/15/24	07/15/24	
Toluene	ND	0.0250		1	07/15/24	07/15/24	
o-Xylene	ND	0.0250		1	07/15/24	07/15/24	
p,m-Xylene	ND	0.0500		1	07/15/24	07/15/24	
Total Xylenes	ND	0.0250		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		108 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		103 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2429001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/24	07/15/24	
Surrogate: Bromofluorobenzene		108 %	70-130		07/15/24	07/15/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		07/15/24	07/15/24	
Surrogate: Toluene-d8		103 %	70-130		07/15/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2429008
Diesel Range Organics (C10-C28)	ND	25.0		1	07/15/24	07/15/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/15/24	07/15/24	
Surrogate: n-Nonane		86.0 %	50-200		07/15/24	07/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2429007
Chloride	166	20.0		1	07/15/24	07/15/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

SW. Comp 28 - 4'

E407104-11 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2429001 mg/kg mg/kg **Volatile Organic Compounds by EPA 8260B** 07/15/24 07/15/24 ND 0.0250 Benzene 1 07/15/24 07/15/24 Ethylbenzene ND 0.0250ND 0.0250 1 07/15/24 07/15/24 Toluene 1 07/15/24 07/15/24 o-Xylene ND 0.025007/15/24 07/15/24 ND 0.0500 1 p,m-Xylene 07/15/24 1 07/15/24 Total Xylenes ND 0.0250 07/15/24 07/15/24 Surrogate: Bromofluorobenzene 104 % 70-130 07/15/24 Surrogate: 1,2-Dichloroethane-d4 90.7 % 70-130 07/15/24 Surrogate: Toluene-d8 102 % 70-130 07/15/24 07/15/24 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2429001 ND 1 07/15/24 07/15/24 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 104 % 07/15/24 07/15/24 70-130 90.7 % 07/15/24 07/15/24 Surrogate: 1,2-Dichloroethane-d4 70-130 Surrogate: Toluene-d8 07/15/24 07/15/24 102 % 70-130 mg/kg Analyst: NV Batch: 2429008 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 07/15/24 ND 25.0 1 07/15/24 Diesel Range Organics (C10-C28) ND 50.0 1 07/15/24 07/15/24 Oil Range Organics (C28-C36) 90.2 % 50-200 07/15/24 07/15/24 Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: DT Batch: 2429007

20.0

ND

1

07/15/24

07/15/24



Chloride

Mack EnergyProject Name:West Mount #1AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden7/16/20242:11:42PM

Artesia NM, 88210		Project Manager:	N	atalie Gladden				7/	16/2024 2:11:42PM
	A 82601	В			Analyst: IY				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2429001-BLK1)							Prepared: 0	7/15/24 Ana	lyzed: 07/15/24
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: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.442		0.500		88.4	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
LCS (2429001-BS1)							Prepared: 0	7/15/24 Ana	lyzed: 07/15/24
Benzene	2.35	0.0250	2.50		93.8	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.4	70-130			
Toluene	2.44	0.0250	2.50		97.5	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.01	0.0500	5.00		100	70-130			
Total Xylenes	7.52	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500		90.0	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS Dup (2429001-BSD1)							Prepared: 0	7/15/24 Ana	lyzed: 07/15/24
Benzene	2.15	0.0250	2.50		86.1	70-130	8.63	23	
Ethylbenzene	2.31	0.0250	2.50		92.3	70-130	5.31	27	
Toluene	2.28	0.0250	2.50		91.1	70-130	6.83	24	
o-Xylene	2.39	0.0250	2.50		95.5	70-130	5.08	27	
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130	4.88	27	
Total Xylenes	7.16	0.0250	7.50		95.4	70-130	4.95	27	
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
•									

0.500

70-130



Surrogate: Toluene-d8

0.518

Mack EnergyProject Name:West Mount #1AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden7/16/20242:11:42PM

Nonhalogenated	Organics b	v EPA	8015D -	GRO

Ana	

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

Blank (2429001-BLK1)						Prepared: 07	/15/24 Analyz	ed: 07/15/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.519		0.500	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.442		0.500	88.4	70-130			
Surrogate: Toluene-d8	0.523		0.500	105	70-130			
LCS (2429001-BS2)						Prepared: 07	/15/24 Analyz	ed: 07/15/24
Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	108	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500	91.2	70-130			
Surrogate: Toluene-d8	0.517		0.500	103	70-130			
LCS Dup (2429001-BSD2)						Prepared: 07	/15/24 Analyz	ed: 07/15/24
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	108	70-130	0.296	20	
Surrogate: Bromofluorobenzene	0.534		0.500	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500	91.4	70-130			
Surrogate: Toluene-d8	0.522		0.500	104	70-130			



Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:11:42PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				//16/2024 2:11:42PW
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2429008-BLK1)							Prepared: 0	7/15/24 An	alyzed: 07/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			
LCS (2429008-BS1)							Prepared: 0	7/15/24 An	alyzed: 07/15/24
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	60.0		50.0		120	50-200			
Matrix Spike (2429008-MS1)				Source:	E407099-	01	Prepared: 0	7/15/24 An	alyzed: 07/15/24
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.4	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			
Matrix Spike Dup (2429008-MSD1)				Source:	E407099-	01	Prepared: 0	7/15/24 An	alyzed: 07/15/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	0.506	20	
Surrogate: n-Nonane	50.8		50.0		102	50-200			



Mack Energy		Project Name:		est Mount #1	A				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager		046-0001 atalie Gladder	1				7/16/2024 2:11:42PM
		Anions	by EPA 3	00.0/9056	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2429007-BLK1)							Prepared: 0	7/15/24 A	nalyzed: 07/15/24
Chloride	ND	20.0							
LCS (2429007-BS1)							Prepared: 0	7/15/24 A	nalyzed: 07/15/24
Chloride	245	20.0	250		98.0	90-110			
Matrix Spike (2429007-MS1)	Source: E407093-03					03	Prepared: 0	7/15/24 A	nalyzed: 07/15/24
Chloride	374	20.0	250	123	101	80-120			
Matrix Spike Dup (2429007-MSD1)				Source:	E407093-	03	Prepared: 0	7/15/24 A	nalyzed: 07/15/24
Chloride	375	20.0	250	123	101	80-120	0.237	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 #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/16/24 14:11

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

	Rec
of <u>Z</u>	Received by
ram	OCD:
DWA	Ď.
CRA	: 5/16/2025
	25 12:00:30
):30 AM

Chain of Custody Page _____ of ____

Client:	Mack		ergy			Bill To				La	ab Us	se On	ly		T	-	-	TA	Т		EPA P	ogram
Project:		St M	Thuo	14		ENERGY STAFFING SERV	ICES		WO#	1		Job	Num		, 1	D 2	D/	3D	Stand	lard	CWA	SDWA
	Manager:				Address: 2	724 NW COUNTY RD		E	67	-10	4			0.00	_	1						
Address:		-		***		Zip HOBBS, NM 88240						Analy	sis ar	nd Met	nod							RCRA
City, Stat	e, Zip				Phone: 57									411								
Phone:					Email: NAT	ALIE@ENERGYSTAFFINGLI	.C.COM	115	115												State	
Email:					BRIT	TTNEY@ENERGYSTAFFINGI	LC.COM	by 8015	ıy 80	21	0	0	0.0			ZZ.			NV	1 CO	UT AZ	TX
Report d	ue by:							RO	ROB	/ 80	826	601	e 30				×		V			
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID			Lab Number	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			86000	верос				Remarks	
	07/11	S	1	SW. Con	1D. 18 - 4).	1									1						
	07/11	S		SW. Con	1	1.	2								1	1						
	07/11	S	1	SW. CO	MD. 20 -	4.	3								V	1						
	07/11	5		SW. Co	mp. 21-	4'	4									1						
	67/11	S		SW. C	MP. 27-	41	5								1	1						
	07/11	5	1	SW. Co	mp. 23	- 4'	V															
	07/11	S		SW CO	mp. 74	- 4'	7								V	/						
	07/11	S		SW. Co	MD. 25-	4'	8								1	1						
	07/11	S	1	SW Co	mp. 26	- 41	9								i	1						
	07/11	S	1	SW. C	mp. 27	- 41	10									V						
Addition	nal Instruc	tions:																A				
				ficity of this sample. may be grounds for I		ring with or intentionally mislabelli Sampled by: Sand	ng the sample	NC.	on,										eived on ice °C on subse		hey are sampl	ed or received
5	ed by: (Sign:	2/	Date 107/	11/24 Time		d by: (signature) chelle Gonzales	7-12	24	Time	03	D	Rec	eived	d on ice	2: (Lat		e Onl	У			
Relinquish	ed by: (Sign	gture)	les 7	-12.24 Time	le 25 Receive	d by: (Signature)	7.12.	24	Time	90	00	T1			I	2			<u></u>			
Relinquist	ed by: (Sign:	ature)	Date	1224 Z		d by: (Signature) exa Michaels	7 15	24	Time	10	Ò	AVG	Ten	np °C_	L	+						
Sample Ma	trix: S - Soil, S	d - Solid, Sg		Aqueous, O - Other	W I		Container	Тур	e: g - j	glass,	p-p				nber	glass	, v -	VOA		***************************************		
					unless other arrange	ements are made. Hazardous	samples will	be re	turnec	d to cl	ient o	r dispo	osed o	of at the	client	expe	nse.	The re	eport for	the ana	lysis of the	above
						C. The liability of the laborator																



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Project In	formation	1					Chain o	f Custody							,,,			1-080	
Client: Project: Project N Address: City, Stat Pitone: Email: Report d Time Sampled	e, Zip	Mount	No of Containers	Sample ID	ama	Address: 2724 City, State, Zip Phone: 575-39 Email: NATALI	Bill To ERGY STAFFING SERV NW COUNTY RD FIOBBS, NM 88240 3-9048 E@ENERGYSTAFFINGLL EY@ENERGYSTAFFINGL	C.COM	DRO/ONO by 8015		Analy	Numb	per	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	3D	Sta	nm co	State UT AZ	

Δ	ddition	al Instru	ctions:

AUGILIONAL MISTIACTIONS						
, (field sampler), attest to the validity and a date or time of collection is considered frau			hat tampering with or intentionally mislabellin	ng the sample location	on, Z	Samples requiring thermal preservation must be received on lice the day they are sampled or receive packed in ice at an avg temp above 0 but less than 6° C on subsequent days
Relinquished by: (Signature)			Michelle Gonzales	7-1224	1030	Lab Use Only Received on ice: (9)/ N
Relinquished by: (Signifure) Wichelle Gonzales	Date 7-12:24	1625	Received by: (Signature)	7.12.14	Time 1900	<u>T1 </u>
Relinguished by: (Signature)	7.12.24	2400	Received by: (Signature) Clexa Michaels	7/5/24	900	AVG Temp °C 4

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.



Printed: 7/15/2024 11:04:44AM

Envirotech Analytical Laboratory

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:	07/15/24 00	:00		Work Order ID:	E407104
Phone:	(575) 390-6397	Date Logged In:	07/12/24 16	:00		Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/16/24 17	2:00 (1 day TAT)			
Chain of	Custody (COC)						
	e sample ID match the COC?		Yes				
	e number of samples per sampling site location mat	ch the COC	Yes				
	imples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Couier		
	c COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	l samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		Yes	,		Comments	:/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		Project ma	nager and tim	e sampled are not
Sample C					listed on th	e COC by cli	ent.
	ample cooler received?		Yes			, and the second	
	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	were custody/security seals intact?		NA				
•	e sample received on ice? If yes, the recorded temp is 4°C,	ia 6°±2°C					
	Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4 (<u>~</u>				
Sample C			NI-				
	queous VOC samples present?		No NA				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?						
	trip blank (TB) included for VOC analyses?	1	NA				
	on-VOC samples collected in the correct containers'		Yes				
	appropriate volume/weight or number of sample contain	iers collected?	Yes				
Field Lab		ation					
	field sample labels filled out with the minimum info ample ID?	mation.	Yes				
	ate/Time Collected?		Yes	l			
C	ollectors name?		No				
Sample P	<u>reservation</u>						
21. Does t	he COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	netals?	No				
<u>Multipha</u>	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	mples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and if	-		Subcontract Lab	o: NA		
			~				
Chefit III	<u>struction</u>						

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount #1A

Work Order: E407113

Job Number: 20046-0001

Received: 7/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/17/24

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: 7/17/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount #1A

Workorder: E407113

Date Received: 7/16/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/16/2024 6:00:00AM, under the Project Name: West Mount #1A.

The analytical test results summarized in this report with the Project Name: West Mount #1A 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 reguarding 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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ljarboe@envirotech-inc.com

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Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Mack Energy	Project Name:	West Mount #1A	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/17/24 13:16

Client Sample ID	Lab Sample ID M	1atrix	Sampled	Received	Container
SW. Comp. 29 - 4'	E407113-01A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 30 - 4'	E407113-02A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 31 - 4'	E407113-03A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 32 - 4'	E407113-04A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 33 - 4'	E407113-05A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 34 - 4'	E407113-06A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 35 - 4'	E407113-07A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SW. Comp. 36 - 4'	E407113-08A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 29 - 4' E407113-01

	_	Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2429028
Benzene	ND	0.0250	1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/16/24	
Toluene	ND	0.0250	1	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	07/16/24	07/16/24	
Surrogate: Toluene-d8		104 %	70-130	07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	07/16/24	07/16/24	
Surrogate: Toluene-d8		104 %	70-130	07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KH		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/16/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/16/24	07/16/24	
Surrogate: n-Nonane		98.3 %	50-200	07/16/24	07/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2429030
Chloride	ND	20.0	1	07/16/24	07/16/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 30 - 4' E407113-02

		E40/113-02					
	D. I	Reporting		ıtion	D 1		Notes
Analyte	Result	Limit	Dill	liion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2429028
Benzene	ND	0.0250		1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250		1	07/16/24	07/16/24	
Toluene	ND	0.0250		1	07/16/24	07/16/24	
o-Xylene	ND	0.0250		1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500		1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250		1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		104 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		104 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KH		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0		1	07/16/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	:	1	07/16/24	07/16/24	
Surrogate: n-Nonane		103 %	50-200		07/16/24	07/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2429030
Chloride	26.4	20.0		1	07/16/24	07/16/24	

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 31 - 4' E407113-03

		E40/113-03				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Allalyte				1	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2429028
Benzene	ND	0.0250	1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/16/24	
Toluene	ND	0.0250	1	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130	07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130	07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KH		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/16/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/16/24	07/16/24	
Surrogate: n-Nonane		98.4 %	50-200	07/16/24	07/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2429030
Chloride	ND	100	5	07/16/24	07/16/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 32 - 4' E407113-04

		2.07.110 01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
		mg/kg		Analyst: IY	110,000	1 mary 200	Batch: 2429028
Volatile Organic Compounds by EPA 8260B	mg/kg				07/16/24	07/16/24	Batch: 2429028
Benzene	ND	0.0250	1				
Ethylbenzene	ND	0.0250	1		07/16/24	07/16/24	
Toluene	ND	0.0250	1		07/16/24	07/16/24	
o-Xylene	ND	0.0250	1		07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1		07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1		07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		104 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		104 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: KH	I		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1		07/16/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	07/16/24	07/16/24	
Surrogate: n-Nonane		99.5 %	50-200		07/16/24	07/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT			Batch: 2429030
Chloride	173	20.0	1		07/16/24	07/16/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 33 - 4' E407113-05

		E40/115-05					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Аналус	Kesuit	Liillit			1 repared	Anaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2429028
Benzene	ND	0.0250	1	l	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	l	07/16/24	07/16/24	
Toluene	ND	0.0250	1	l	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	l	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	l	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	Į	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		106 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		106 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KH	I		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/16/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	07/16/24	07/17/24	
Surrogate: n-Nonane		100 %	50-200		07/16/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT	ı		Batch: 2429030
Chloride	174	20.0	1	1	07/16/24	07/16/24	

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 34 - 4'

		E407113-06					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2429028
Benzene	ND	0.0250	1	1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	1	07/16/24	07/16/24	
Toluene	ND	0.0250	1	1	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KH		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/16/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/16/24	07/17/24	
Surrogate: n-Nonane		94.9 %	50-200		07/16/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2429030
Chloride	25.9	20.0	1	1	07/16/24	07/16/24	

Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 35 - 4' E407113-07

		E40/113-0/					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Allaryte	Result	Limit	Dire	ation	Trepared	Anaryzeu	rvoics
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2429028
Benzene	ND	0.0250		1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250		1	07/16/24	07/16/24	
Toluene	ND	0.0250		1	07/16/24	07/16/24	
o-Xylene	ND	0.0250		1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500		1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250		1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		104 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		104 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KH		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0		1	07/16/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	:	1	07/16/24	07/17/24	
Surrogate: n-Nonane		97.3 %	50-200		07/16/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2429030
Chloride	ND	100	:	5	07/16/24	07/16/24	



Mack Energy	Project Name:	West Mount #1A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

SW. Comp. 36 - 4' E407113-08

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2429028
Benzene	ND	0.0250	1		07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1		07/16/24	07/16/24	
Toluene	ND	0.0250	1		07/16/24	07/16/24	
o-Xylene	ND	0.0250	1		07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1		07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1		07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		107 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY			Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		107 %	70-130		07/16/24	07/16/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130		07/16/24	07/16/24	
Surrogate: Toluene-d8		105 %	70-130		07/16/24	07/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KF	I		Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1		07/16/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1		07/16/24	07/17/24	
Surrogate: n-Nonane		89.7 %	50-200		07/16/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2429030
Chloride	ND	200	10)	07/16/24	07/16/24	·



West Mount #1A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 7/17/2024 1:16:37PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2429028-BLK1) Prepared: 07/16/24 Analyzed: 07/16/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.534 0.500 107 70-130 Surrogate: 1,2-Dichloroethane-d4 0.448 0.500 89.6 70-130 0.500 104 70-130 Surrogate: Toluene-d8 0.518 LCS (2429028-BS1) Prepared: 07/16/24 Analyzed: 07/16/24 2.22 0.0250 2.50 88.8 70-130 Benzene 2.32 2.50 70-130 92.6 Ethylbenzene 0.0250 2.32 0.0250 2.50 92.6 70-130 2.45 98.2 70-130 0.0250 2.50 o-Xylene 4.90 5.00 98.0 70-130 p,m-Xylene 0.0500 7.35 0.0250 7.50 98.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.560 0.500 112 70-130 0.500 93.3 70-130 Surrogate: 1,2-Dichloroethane-d4 0.467 70-130 Surrogate: Toluene-d8 0.500 0.514 Matrix Spike (2429028-MS1) Source: E407113-07 Prepared: 07/16/24 Analyzed: 07/16/24 2.26 0.0250 2.50 ND 90.3 48-131 45-135 Ethylbenzene 2.38 0.0250 2.50 ND 95.2 94.7 48-130 Toluene 2.37 0.0250 2.50 ND 2.51 0.0250 2.50 ND 100 43-135 o-Xylene ND 101 43-135 p,m-Xylene 5.03 0.0500 5.00 Total Xylenes 7.54 0.0250 7.50 ND 101 43-135 Surrogate: Bromofluorobenzene 0.555 0.500 111 70-130 0.500 92.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 0.500 70-130 0.512 Surrogate: Toluene-d8 Matrix Spike Dup (2429028-MSD1) Source: E407113-07 Prepared: 07/16/24 Analyzed: 07/16/24 2.33 0.0250 2.50 ND 93.1 48-131 3.05 23 0.0250 2.50 ND 97.8 45-135 2.65 27 Ethylbenzene 2.43 ND 97.1 48-130 2.50 24 2.50 Toluene 0.0250 o-Xylene 2.56 0.0250 2.50 ND 102 43-135 1.95 27 5.00 ND 102 43-135 27 5.11 1.57 p,m-Xylene 0.0500 27 7.67 0.0250 7.50 ND 102 43-135 1.70 Total Xylenes Surrogate: Bromofluorobenzene 0.547 0.500 109 70-130



0.500

0.500

0.465

0.518

92.9

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

Mack EnergyProject Name:West Mount #1AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden7/17/20241:16:37PM

	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2429028-BLK1)							Prepared: 0'	7/16/24 Analy	yzed: 07/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2429028-BS2)							Prepared: 0'	7/16/24 Analy	yzed: 07/16/24
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	·	110	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.1	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
Matrix Spike (2429028-MS2)				Source:	E407113-	07	Prepared: 0'	7/16/24 Analy	yzed: 07/16/24
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2429028-MSD2)				Source:	E407113-0	07	Prepared: 0'	7/16/24 Analy	yzed: 07/16/24
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	1.49	20	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount #1A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:16:37PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			7/	/17/2024 1:16:37PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2429026-BLK1)							Prepared: 0	7/16/24 Ana	llyzed: 07/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.6		50.0		109	50-200			
LCS (2429026-BS1)							Prepared: 0	7/16/24 Ana	lyzed: 07/16/24
Diesel Range Organics (C10-C28)	295	25.0	250		118	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			
Matrix Spike (2429026-MS1)				Source:	E407113-0	02	Prepared: 0	7/16/24 Ana	alyzed: 07/16/24
Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			
Matrix Spike Dup (2429026-MSD1)				Source:	E407113-0	02	Prepared: 0	7/16/24 Ana	alyzed: 07/16/24
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	4.77	20	
Surrogate: n-Nonane	50.8		50.0		102	50-200			



QC Summary Data

Mack Energy		Project Name:		est Mount #1 <i>A</i>	1				Reported:
7 W. Compress Road Artesia NM, 88210	Project Number: Project Manager					7/17/2024 1:16:37PM			
		Anions	by EPA 3	00.0/9056A					Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2429030-BLK1)							Prepared: 0'	7/16/24 A	nalyzed: 07/16/24
Chloride	ND	20.0							
LCS (2429030-BS1)							Prepared: 0'	7/16/24 A	nalyzed: 07/16/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2429030-MS1)				Source: 1	E407112-0)2	Prepared: 0'	7/16/24 A	nalyzed: 07/16/24
Chloride	292	20.0	250	35.7	103	80-120			
Matrix Spike Dup (2429030-MSD1)				Source: 1	E407112-0)2	Prepared: 0	7/16/24 A	nalyzed: 07/16/24
Chloride	292	20.0	250	35.7	103	80-120	0.0818	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

ſ	Mack Energy	Project Name:	West Mount #1A	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
1	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/17/24 13:16

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.



CWA

Bill To Attention: ENERGY STAFFING SERVICES

HOBBS, NM 88240

Address: 2724 NW COUNTY RD

City, State, Zip

Lab Use Only

Lab WO#

E407113

Job Number

20046-0001

Analysis and Method

Project Information

Project: West

Project Manager

Address:

TUUI Coo.	- 21				Phone: 575-393-9048						1			1	ļ	1 1]	
City, State, Zip Pione:				Email: NATALIE@ENERGYSTAL	FFINGLEC.COM	15	13	1 1	A MARKET				-			1.7	State		
Prone:				BRITTNEY@ENERGYSTAFFINGLLC.COM		Dy 8015	y 80	21	0	0	300.0	100	NN			NM CO	UIL	AZ TX	
emaii. Report d	ue by				in the second second		KO D	ROB	y 80.	876	109	90 90 90	1	2	~		V		
Time Sampled	Date Sampled	Matrix	No of Continuers	Sample ID		Lab Number	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC	36000			Rema	rks
	07/12	5	1	SW. Com	P. 29-4"										-	-			
	07/12	5	1	Sto. Con	1D 30-4'	7	-							/		-			-
	07/12	5		Sw. Corr	P. 31-4'	3			-					/					
	07/12	S		Sw. Cov	Mp. 32-4'	4	_	-	-					V	-		-		
	07/12	5		SW. Co	Mp. 33-4'	5		-	-	-	-			V	-		1		
	OILIZ	5		SW. Ci	omp 34-4'	6	_	-		-			-	/	1	-	1		
and the state of t	07/12	S	1	Sw. Co	MD. 35-4'	7		-	-				-	V	} 	-			
	07/12	5		SW. C	comp. 36-4'	8				-	-		-	0		-			
			,				-		-	-	-		-	-		+			
																	1		
Additio	nal Instru	ctions:																	
I, (field sa	mpler), attest	to the valid	ty and autho	enticity of this sample.	am aware that tampering with or intentional	Sand(a	Pl N	ation,			San	ples requiring ked in ice at an	thermal :	p abox	e 0 but less	s than 6°C	an subseque	day they are nt days	e sampled or re
1	hed by: (Sig	nature)	Di	d may be grounds for le	Received by: (Signatura)	ranks 7-15			13,	10	Re	eceived or	n ice:		Lab Us Y)/ N	e Only			
Religaui	had by ISia	Queel	D.	7.15) 4 Time	e 00 (Signature)	1. Res 7.1		1.5.55	11.00		T			<u>T2</u>	2		<u></u>		
Reling	shed by: ISig	mature)	200	7.1524 11 7.1524 17 Time	330 Received by: (Signature)	ell 7-10	0-2	4 0	me Olo C	π	A	VG Temp	°C_	4					
Sample				Alleria de Propositiones de la constante de la		1 Franks	mor T	VIND :	0 010	CC 73 :	noty	/plastic, a	g - ami	ber g	glass, v -	AOV	novi for th	n analysis	of the alim
Note: Sa	imples are d	iscarded 31	0 days afte	r results are reported	unless other arrangements are made	Hazardous samples	will be	retur	ned to	o client	or di	sposed of a	i the ci	ient	expense.	tue te	port for to	5 miorkais	2 S. MIK. 000.

TAT

1D 2D 3D Standard

envirotech Inc.

Printed: 7/16/2024 1:08:56PM

Envirotech Analytical Laboratory

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:	07/16/24 06:0	00	Work Order ID	E407113
Phone:	(575) 390-6397	Date Logged In:	07/15/24 16:3	32	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	07/17/24 17:0	00 (1 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courrier	
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	No			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		Comme	nts/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and t	ime sampled are not
Sample C	<u>Cooler</u>				listed on COC by clies	nt.
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e 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	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
Sample C			='			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	<u>oel</u>					
20. Were	— field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	'		
	ollectors name?		No			
	reservation the COC or field labels indicate the samples were p		NI-			
	* *	reserveu?	No			
	umple(s) correctly preserved? filteration required and/or requested for dissolved n	natolo?	NA No			
	-	netais:	INU			
	se Sample Matrix	0				
	the sample have more than one phase, i.e., multipha		No			
	does the COC specify which phase(s) is to be analy	yzeu?	NA			
-	act Laboratory					
	imples required to get sent to a subcontract laborato	•	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA Su	abcontract Lab	o: NA	
Client In	<u>struction</u>					

Date

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

MACK ENERGY: WEST MOUNT #1A
REMEDIATION AND FINAL PHOTOS

















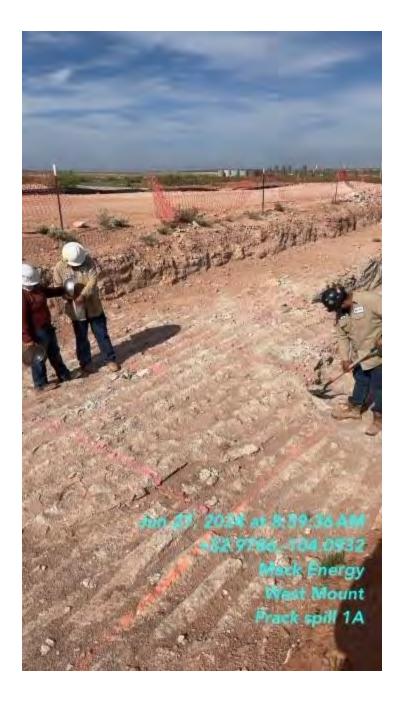


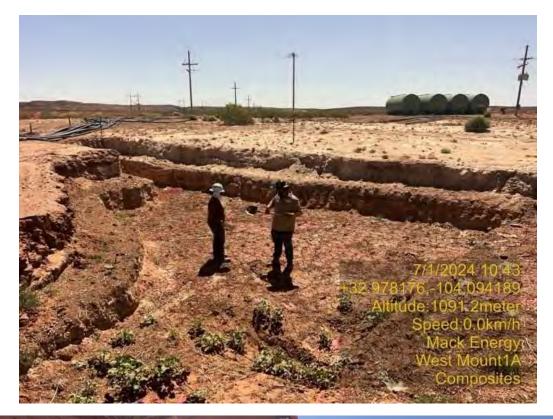




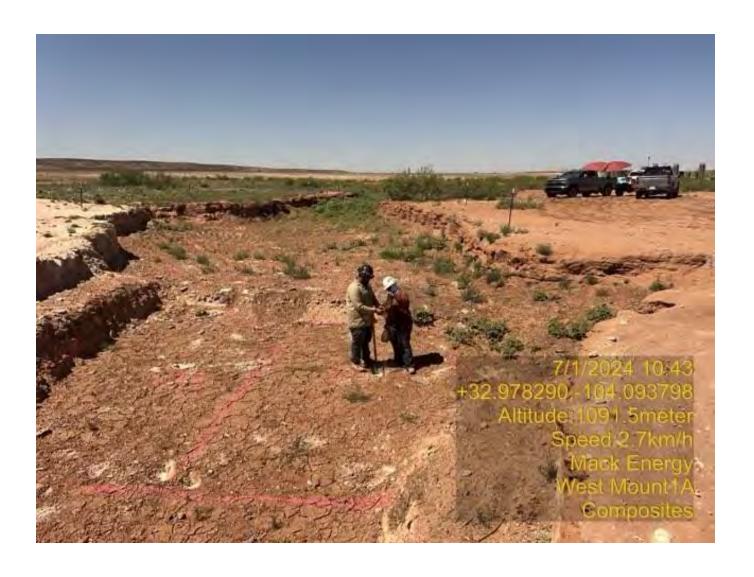


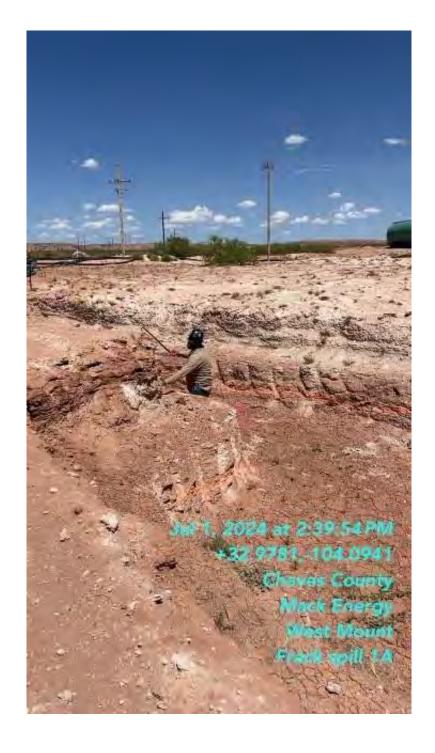
















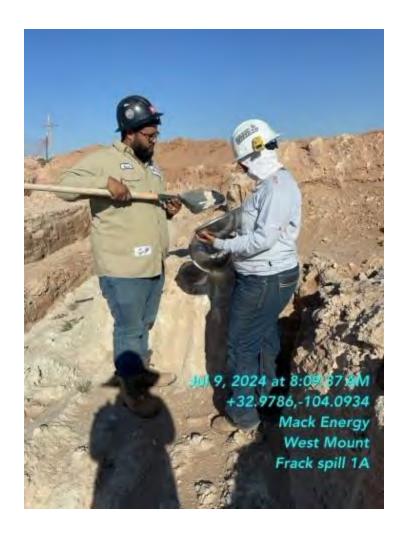














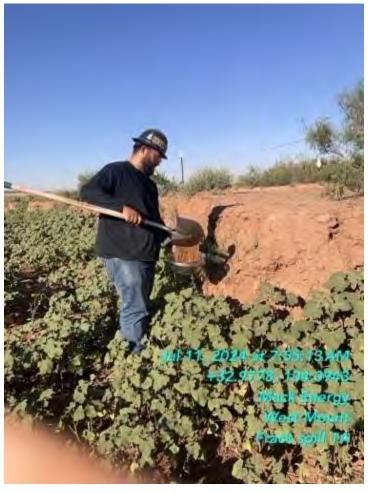












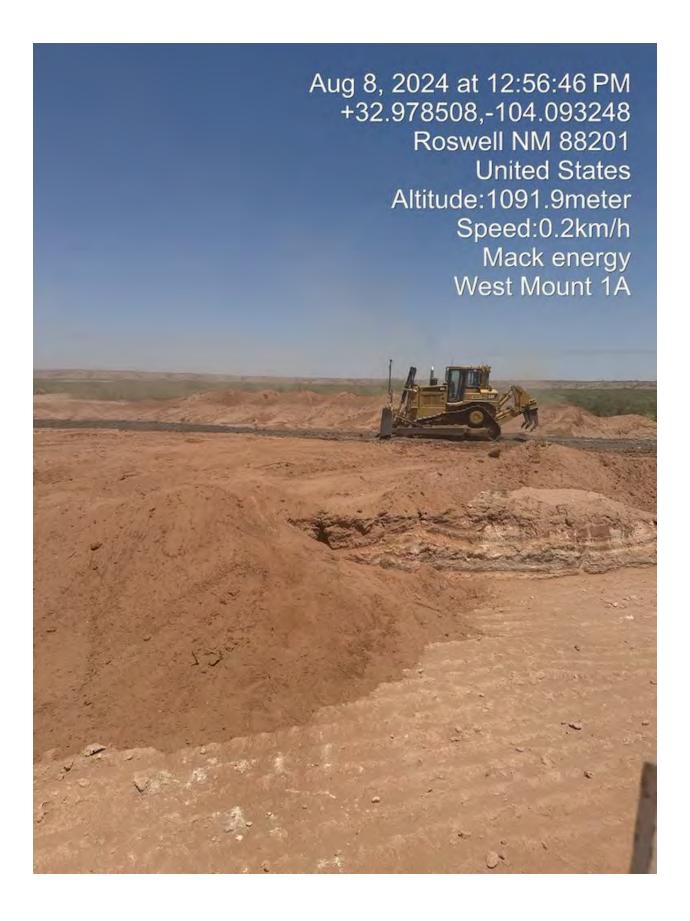


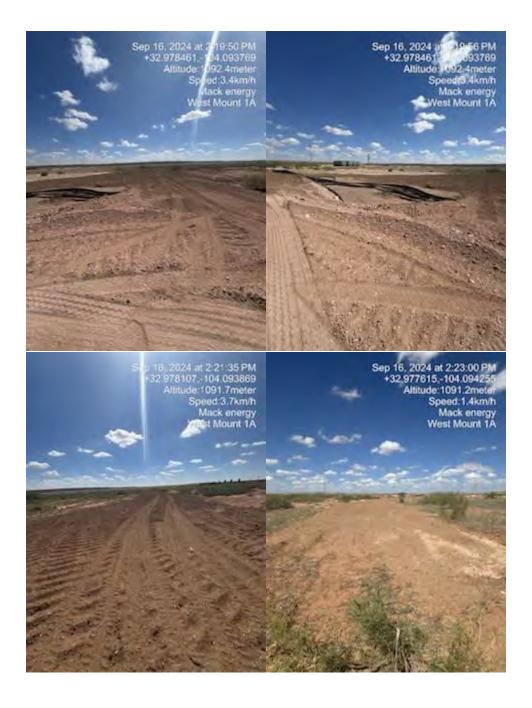




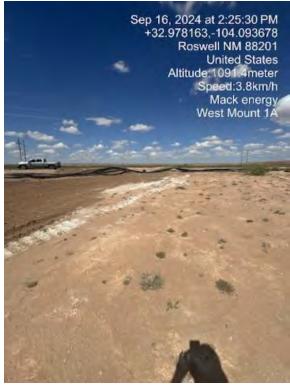


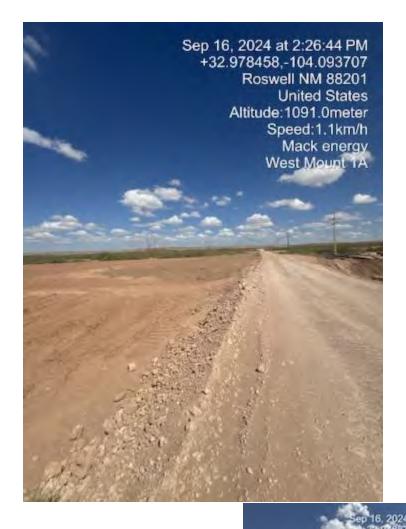




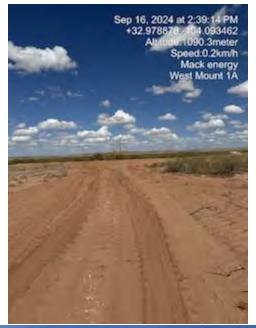
















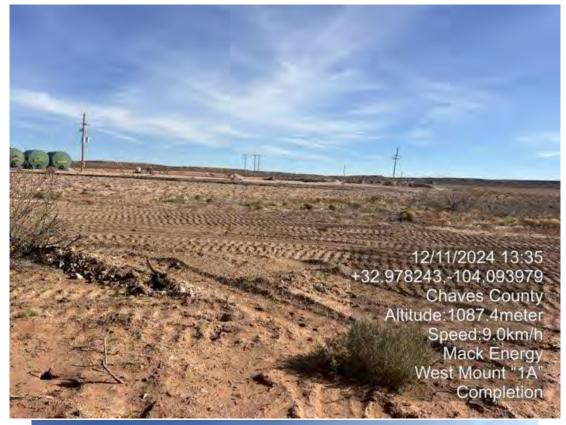
























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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 463700

QUESTIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327753701
Incident Name	NAPP2327753701 WEST MOUNT FEDERAL 1A @ 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 FEDERAL 1A
Date Release Discovered	09/08/2023
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: Equipment Failure Flow Line - Production Produced Water Released: 156 BBL Recovered: 0 BBL Lost: 156 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 463700

QUESTIONS	(continued)

Operator: MACK ENERGY CORP	OGRID: 13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	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.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i	i.e. gas only) are to be submitted on the C-129 form.
In Wal Passage	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	
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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a adequately investigate and remediate contamination that pose a threat to groundwater, surface out does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com

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QUESTIONS, Page 3

Action 463700

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Domodiation Dlan

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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Please answer all the question	s 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	on plan approval with this submission	Yes
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.		
Have the lateral and vert	ical 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 CI B)	35600
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	264
GRO+DRO	(EPA SW-846 Method 8015M)	264
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 10 15 20 1		
	1 NMAC unless the site characterization report includes completed timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
which includes the anticipated		d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, 02/23/2024
which includes the anticipated On what estimated date	timelines for beginning and completing the remediation.	
which includes the anticipated On what estimated date On what date will (or did	timelines for beginning and completing the remediation. will the remediation commence	02/23/2024
which includes the anticipated On what estimated date On what date will (or did On what date will (or wa	timelines for beginning and completing the remediation. will the remediation commence) the final sampling or liner inspection occur	02/23/2024 07/08/2024
which includes the anticipated On what estimated date On what date will (or did On what date will (or was What is the estimated su	will the remediation commence) the final sampling or liner inspection occur s) the remediation complete(d)	02/23/2024 07/08/2024 12/27/2024
which includes the anticipated On what estimated date On what date will (or did On what date will (or was What is the estimated su What is the estimated vo	will the remediation commence the final sampling or liner inspection occur the final sampling or liner inspection occur the remediation complete(d) trace area (in square feet) that will be reclaimed	02/23/2024 07/08/2024 12/27/2024 13652
which includes the anticipated On what estimated date On what date will (or did On what date will (or was What is the estimated vo What is the estimated su	will the remediation commence) the final sampling or liner inspection occur s) the remediation complete(d) urface area (in square feet) that will be reclaimed	02/23/2024 07/08/2024 12/27/2024 13652 4318

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 463700

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [fEEM0112338393]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	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	

er Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Natalie Gladden Title: Environmental I hereby agree and sign off to the above statement Email: natalie@energystaffingllc.com Date: 05/15/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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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, Page 5

Action 463700

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	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 463700

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	359106
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/29/2024
What was the (estimated) number of samples that were to be gathered	69
What was the sampling surface area in square feet	13652

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	13652	
What was the total volume (cubic yards) remediated	4318	
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	13652	
What was the total volume (in cubic yards) reclaimed	4318	
Summarize any additional remediation activities not included by answers (above)	N/A	

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Natalie Gladden
Title: Environmental
Email: natalie@energystaffingllc.com
Date: 05/15/2025

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

QUESTIONS, Page 7

Action 463700

QUESTIONS	(continued)
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Operator: MACK ENERGY CORP	OGRID: 13837	
P.O. Box 960	Action Number:	
Artesia, NM 882110960	463700	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	13652	
What was the total volume of replacement material (in cubic yards) for this site	5708	
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 ver must include a top layer, which is either the background thickness of topsoil or one foot of suitable material	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	12/27/2024	
Summarize any additional reclamation activities not included by answers (above)	SEEDED WITH NMSLO LOAMY SEED MIX	
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 reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.		
I be anniher a makifi. Also ak Also diminimum aki ang mirrang also ang dia kura ang also ang dia aki aki ak ak	manufadara and undanatand that mususus to OCD miles and manufations all secretarions of	
to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed an ontification to the OCD when reclamation and re-vegetation are complete.	

Name: Natalie Gladden

Title: Environmental

Email: natalie@energystaffingllc.com

Date: 05/15/2025

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QUESTIONS, Page 8

Action 463700

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
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.	

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CONDITIONS

Action 463700

CONDITIONS

Operator:	OGRID:
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P.O. Box 960	Action Number:
Artesia, NM 882110960	463700
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation Report for Incident #NAPP2327753701 WEST MOUNT FEDERAL 1A, thank you. This Reclamation Report is approved.	6/13/2025