

WEST MOUNT SPILL A CLOSURE REQUEST

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

DATE OF RELEASE: 09/20/2023 INCIDENT NO. NAPP2327756575

03/19/2025 Prepared by:



March 19, 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 Spill A

API No. 30-005-64381 Incident No. NAPP2327756575 Unit Letter M, Section 27, Township 15S, Range 28E Chaves County, New Mexico

To Whom it May Concern:

Mack Energy engaged Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the produced water release that occurred on September 20, 2023, at the West Mount Spill A site (hereafter referred to as "Spill A"). On September 22, 2023, at 4:12 p.m., ESS promptly notified the *New Mexico Oil Conservation Division (NMOCD)*, *District I Office*, via email regarding the release (see notification attached). On behalf of Mack Energy, ESS also submitted the initial C141 Release Notification, and the spill calculator used to determine the release volume on October 4, 2023 (attachments provided). The NMOCD accepted the C141 as official on October 5, 2023, at 4:26 p.m. The incident was assigned to the number NAPP2327756575 (notification of correspondence is also attached).

This report provides a comprehensive account of the spill assessment, delineation, and remedial activities. It confirms that the closure criteria outlined in the 19.15.29.12 *New Mexico Administrative Code (NMAC: New Mexico Oil Conservation Division, 2018)* have been met, and that all relevant regulations have been adhered to. This document serves as the final report for seeking approval from the NMOCD to close the aforementioned release.

Incident Description

On September 20, 2023, Well Spring, a water transfer company, identified a failure in their lay flat line, resulting in the release of produced water into the pasture area of Spill A. Upon discovering the release, ESS was notified and promptly dispatched crews to the site to preform a comprehensive environmental site assessment. Based on the measured impact area, it was determined that approximately 341.08bbls of produced water was released, with no recoverable fluid, onto the pad and into the pasture area of Spill A. Initial site photos and measurements of the impacted area were taken. Please refer to the attached initial site photos for further details.

Site Characterization

The release at Spill A occurred on State Land, located at latitude 33.000002 and longitude - 104.070796, approximately 19.6 miles southeast of Hagerman, New Mexico. The site is legally described as Unit Letter M, Section 27, Township 15S, and Range 28E in Chaves County, New Mexico. A schematic of the site is attached.

Spill A includes production lines and is situated near production facilities and well pads. The release occurred in the pasture area of the site, which lies at an elevation of 3,751 feet. The area is historically dominated by alkali sacaton, black grama, coldenia, blue grama, and other perennial grasses and forbs. Rangeland and vegetation classification details are attached for your reference.

According to the *United States Department of Agriculture Natural Resources Conservation Services*, the soil composition in the Spill A area consists of 100% Tencee-Sotim association (soil map attached). The *FEMA National Flood Hazard Layer* indicates a 0.2% chance of flooding in the area, with a 1% chance of flooding averaging one foot deep or occurring in drainage areas of less than one square mile (flood hazard map attached).

The *United States Department of the Interior, Bureau of Land Management*, has indicated a "low potential" for Karst Geology in the vicinity of Spill A (karst map attached).

There are fourteen Palustrine Emergent (PEM) wetlands and two 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 water wells, according to the *New Mexico Office of the State Engineer*, are as follows:

- RA12428, drilled in 2016, with a well depth of 170 feet and a groundwater depth of 125 feet, located 6,258 meters from the site.
- RA09248, drilled in 1996, with a well depth of 150 feet and a groundwater depth of 45 feet, located 8,190 meters from the site.

- RA10280, drilled in 2002, with a well depth of 70 feet and a groundwater depth of 40 feet, located 8,364 meters from the site.
- RA12429 POD1, drilled in 2016, with a well depth of 62 feet and a groundwater depth of 27 feet, located 8,375 meters from the site.
- RA09059, drilled in 1995, with a well depth of 110 feet and a groundwater depth of 35 feet, located 8,787 meters from the site.

An extended groundwater search was conducted using the *OSE POD Mapping System* and found two other wells within a half-mile radius of the release:

- RA12006 POD 1, with no drill date, well depth, or groundwater depth available.
- RA12007 POD 1, with no drill date, well depth, or groundwater depth available.

The NMOSE, OSE POD, and groundwater maps are attached for your review.

Closure Criteria Determination

The closure criteria for soils impacted by the release are outlined in the chart below. Since there is no available groundwater data within a half-mile radius of the release point at Spill A and given the site's location on State Land with "low karst potential," the site was categorized under the <50' to groundwater criteria. This classification is solely due to the absence of recent or available groundwater depth information.

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 confirming that the release has impacted the soil at Spill A. The remediation and abatement procedures followed are aligned with the goals and objectives outlined in the NMOCD Closure Criteria for Soils Impacted by a Release, dated August 14, 2018. This document outlines Mack Energy's initial response actions, site assessment, and sampling procedures conducted by ESS personnel. Below is a summary of the delineation process for the release.

Soil Sampling Procedures

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

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

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

Volatile Organics by EPA 8021B

- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes Nonhalogenated Organics by EPA 8015D – GRO
 - Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D - DRO/ORO

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

Anions by EPA 300.0/9056A

Chloride

Release Investigation Data

On November 14, 2023, ESS arrived at the Spill A site to establish delineation sample points, which were GPS-located. The crews began collecting surface samples, which were field-tested, logged, and submitted to Envirotech Laboratory for confirmation. A total of 20 vertical sample points and 17 horizontal sample points were established. Samples were collected using a backhoe in 1-foot and 2-foot intervals. Bottom hole samples were then sent to the laboratory for further analysis and confirmation.

Please refer to the delineation sample data provided below, with laboratory results highlighted in yellow. Additional sample data, the delineation sample map, and the lab analysis are attached to this report for your review.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	1120	L	ND	ND	ND	ND	ND	1070
	2	1280							
	4	480							
	6	880							
	8	400							
	10	320							
	12	320	L	ND	ND	ND	ND	ND	258
SP2	SURF	3600	L	ND	ND	ND	ND	ND	3240

		2.12							
	2	240							
	4	320							
	6	400							
	8	320	L	ND	ND	ND	ND	ND	240
SP3	SURF	3680	L	ND	ND	ND	ND	ND	4100
	2	400							
	4	320	L	ND	ND	ND	ND	ND	226
SP4	SURF	880	L	ND	ND	31.1	ND	31.1	864
	2	320							
	4	160	L	ND	ND	ND	ND	ND	66.5
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	6630
	2	1440							
	4	1360							
	6	2000							
	8	1520							
	10	400							
	12	160	L	ND	ND	ND	ND	ND	62.9
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	6560
	2	1360							
	4	1280							
	6	1200							
	8	1440							
	10	160							
	12	320							
	14	80							
	16	80							
	18	80							
	20	80	L	ND	ND	ND	ND	ND	ND
SP7	SURF	>4000	L	ND	ND	ND	ND	ND	5650
	2	1600							
	4	880							
	6	480							
	8	400							
	10	400	L	ND	ND	ND	ND	ND	516
		130		,,,,	,,,,	,,,,,		,,5	310
SP8	SURF	>4000	L	ND	ND	ND	ND	ND	12000

	2	560							
	4	720							
	6	160							
	8	80	L	ND	ND	ND	ND	ND	44.6
	0	80		NU	NU	ND	NU	ND	44.0
SP9	SURF	>4000	L	ND	ND	ND	ND	ND	24100
313	2	80		110	110	110	110	110	24100
	4	560							
	6	160							
	8	160	L	ND	ND	ND	ND	ND	84.9
			_						
SP10	SURF	>4000	L	ND	ND	ND	ND	ND	7540
	2	320							
	4	240	L	ND	ND	ND	ND	ND	216
SP11	SURF	>4000	L	ND	ND	ND	ND	ND	3880
	2	240							
	4	240							
	6	80							
	8	80							
	10	80	L	ND	ND	ND	ND	ND	27.5
SP12	SURF	>4000	L	ND	ND	ND	ND	ND	5960
	2	800							
	4	560							
	6	320							
	8	400							
	10	240	L	ND	ND	ND	ND	ND	247
SP13	SURF	>4000	L	ND	ND	28.4	50.4	78.8	11500
	2	960							
	4	1280							
	6	2000							
	8	1760							
	10	1120							
	12	640							
	14	240							
	16	80	L	ND	ND	ND	ND	ND	24
65.1	0	1000							40765
SP14	SURF	>4000	L	ND	ND	ND	ND	ND	10700
	2	320							

	4	480							
	6	480	L	ND	ND	ND	ND	ND	604
	8	480		ND	ND	IND	ND	ND	004
	10	480	L	ND	ND	ND	ND	ND	111
	10	100		140	110	110	140	110	111
SP15	SURF	>4000	L	ND	ND	ND	ND	ND	9240
	2	640							
	4	720							
	6	480							
	8	720							
	10	400							
	12	320	L	ND	ND	ND	ND	ND	329
SP16	SURF	>4000	L	ND	ND	ND	ND	ND	5580
	2	960							
	4	320							
	6	480							
	8	560							
	10	400							
	12	320	L	ND	ND	ND	ND	ND	346
SP17	SURF	480	L	ND	ND	ND	ND	ND	406
	2	720							
	4	720							
	6	400							
	8	400	L	ND	ND	ND	ND	ND	388
SP18	SURF	160	L	ND	ND	ND	ND	ND	56.1
	2	160							
	4	160	L	ND	ND	ND	ND	ND	39.1
SP19	SURF	2880	L	ND	ND	31.7	ND	31.7	3060
	2	960							
	4	1200							
	6	1200							
	8	720							
	10	400							16.5
	12	400	L	ND	ND	ND	ND	ND	428
CDOO	CUE	2000		NE	NE	NE	NE	NO	2050
SP20	SURF	2800	L	ND	ND	ND	ND	ND	2860
	2	640							

SW1 SURF 800 L ND ND ND ND ND ND ND 87: 1 1040 2 960 3 400 4 320 L ND		1		<u> </u>						
8										
10 320										
12 320			640							
14		10	320							
16		12	320							
SW1 SURF 800 L ND ND ND ND ND 87: 1 1040		14	160							
1 1040		16	160	L	ND	ND	ND	ND	ND	101
1 1040										
2 960 3 400 4 320 L ND ND ND ND ND ND ND S96 1 960 2 640 3 320 4 160 L ND ND ND ND ND ND ND ND 21 SW3 SURF 480 L ND ND ND ND ND ND ND S0 1 400 2 320 L ND ND ND ND ND ND ND ND 46 SW4 SURF 400 H ND ND ND ND ND ND ND 46 SW4 SURF 400 L ND ND ND ND ND ND ND 21 SW5 SURF 480 L ND 46 SW4 SURF 400 H ND ND ND ND ND ND ND 21 SW5 SURF 4000 L ND	SW1	SURF	800	L	ND	ND	ND	ND	ND	875
3 400		1	1040							
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SW2 SURF >4000 L ND ND ND ND ND ND ND S96 1 960 2 640 3 320		3	400							
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4 160 L ND ND ND ND ND ND 21 SW3 SURF 480 L ND 46 SW4 SURF 400 H ND ND ND 6650 20 1 1360		2	640							
SW3 SURF 480 L ND 460 SW4 SURF 400 H ND ND ND ND 6650 20 1 1360		3	320							
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1 400 L ND ND ND ND ND 466 SW4 SURF 400 H ND ND 6650 ND 6650 20 1 1360										
2 320 L ND ND ND ND 46 SW4 SURF 400 H ND ND 6650 ND 6650 20 1 1360	SW3	SURF	480	L	ND	ND	ND	ND	ND	502
SW4 SURF 400 H ND ND 6650 ND 6650 200 1 1360 1 1 1360 1 1 1360 1 1 1060 1		1	400							
1 1360 2 1200 3 480 4 240 L ND ND ND ND ND 21. SW5 SURF >4000 L ND ND 26.3 ND 26.3 519 1 720 -		2	320	L	ND	ND	ND	ND	ND	464
1 1360 2 1200 3 480 4 240 L ND ND ND ND ND 21. SW5 SURF >4000 L ND ND 26.3 ND 26.3 519 1 720 -										
2 1200 3 480 4 240 L ND ND ND ND ND 21. SW5 SURF >4000 L ND ND 26.3 ND 26.3 519 1 720	SW4	SURF	400	Н	ND	ND	6650	ND	6650	208
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SW5 SURF >4000 L ND ND 26.3 ND 26.3 519 1 720		3	480							
1 720 2 960 3 560 4 400 L ND ND ND ND ND ND ND 2 1120		4	240	L	ND	ND	ND	ND	ND	212
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1 2880 2 1120	SW6	SURF	>4000	L	ND	ND	25.6	ND	25.6	4870
2 1120										
4 240 L ND ND ND ND ND 21				L	ND	ND	ND	ND	ND	212

SW7	SURF	>4000	L	ND	ND	ND	ND	ND	10500
	1	1240							
	2	720							
	3	560							
	4	400	L	ND	ND	ND	ND	ND	537
SW8	SURF	>4000	L	ND	ND	ND	ND	ND	9800
	1	560							
	2	400	L	ND	ND	ND	ND	ND	310
SW9	SURF	>4000	L	ND	ND	ND	ND	ND	10100
	1	560							
	2	320	L	ND	ND	ND	ND	ND	235
SW10	SURF	>4000	L	ND	ND	ND	ND	ND	8840
	1	320							
	2	160	L	ND	ND	ND	ND	ND	137
SW11	SURF	320	L	ND	ND	ND	ND	ND	310
	1	480							
	2	240	L	ND	ND	ND	ND	ND	243
SW12	SURF	>4000	L	ND	ND	ND	ND	ND	5720
	1	560							
	2	480	L	ND	ND	ND	ND	ND	424
SW13	SURF	>4000	Н	ND	ND	50.4	57.6	108	15200
	1	160	_						
	2	160	L	ND	ND	ND	ND	ND	139
61444	01155	222					4.5.5	4	210
SW14	SURF	320	Н	ND	ND	57.9	120	177.9	316
	1	160							100
	2	160	L	ND	ND	ND	ND	ND	160
CVA/4.5	CURE	. 4000	,	ND	ND	No	ND	ND	40000
SW15	SURF	>4000	L	ND	ND	ND	ND	ND	10800
	1	240	1	ND	ND	ND	ND	NID	E 4 C
	2	160	L	ND	ND	ND	ND	ND	54.6
CMAC	CLIDE	C40		NID	ND	NID	ND	NID	700
SW16	SURF	640	L	ND	ND	ND	ND	ND	798
	1	400							

	2	160	L	ND	ND	ND	ND	ND	121
SW17	SURF	640	L	ND	ND	ND	ND	ND	753
	1	400							
	2	240	L	ND	ND	ND	ND	ND	279

Please find the delineation photos attached to this report. Since the employee responsible for taking photos during the delineation phase is no longer with ESS, the available delineation photos are limited.

On December 11, 2024, ESS issued the official notification to the NMOCD regarding the composite phase of the release at Spill A. The NMOCD received and acknowledged the notification on the same day (see attached email correspondence).

On December 19, 2024, ESS crews began collecting 200 square foot composite samples from the excavation area at Spill A. In total, 64 bottom hole composite samples were gathered, field-tested, and sent to Envirotech Laboratory for confirmation. Several composites showed elevated TPH levels and were subsequently excavated for further testing. As shown on the sample data sheet below, the elevated composites are marked in red, followed by the deeper composites that were collected. All of these deeper samples passed the site's concentration level requirements. The composite sample data is provided below and is also attached to this report, along with lab confirmation results.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
COMP1	10	240	L	ND	ND	ND	ND	ND	137
COMP2	2	320	L	ND	ND	ND	ND	ND	287
COMP3	2	320	L	ND	ND	ND	ND	ND	286
COMP4	10	320	L	ND	ND	ND	ND	ND	283
COMP5	8	320	L	ND	ND	ND	ND	ND	279
COMP6	8	400	L	ND	ND	ND	ND	ND	287
COMP7	8	320	L	ND	ND	ND	ND	ND	288
COMP8	6	400	L	ND	ND	ND	ND	ND	1150
COMP8A	8	240	L	ND	ND	ND	ND	ND	487

СОМР9	2	240	L	ND	ND	ND	ND	ND	133
COMP10	2	240	L	ND	ND	ND	ND	ND	140
COMP11	12	240	L	ND	ND	ND	ND	ND	75.4
COMP12	10	240	L	ND	ND	ND	ND	ND	71
COMP13	10	240	L	ND	ND	ND	ND	ND	66.6
COMP14	1.1	220		ND	ND	ND	ND	ND	227
COMP14	14	320	L	ND	ND	ND	ND	ND	337
COMP15	10	320	L	ND	ND	ND	ND	ND	347
COIVII 13	10	320		IVD	IVE	IVE	IVE	IVE	547
COMP16	10	320	L	ND	ND	ND	ND	ND	333
COMP17	10	320	L	ND	ND	ND	ND	ND	347
COMP18	14	320	L	ND	ND	ND	ND	ND	346
COMP19	12	400	L	ND	ND	ND	ND	ND	374
0011500	10	100							200
COMP20	12	400	L	ND	ND	ND	ND	ND	308
COMP21	12	400	L	ND	ND	ND	ND	ND	513
COIVII ZI	12	400	L	ND	ND	ND	ND	ND	313
COMP22	6	400	L	ND	ND	ND	ND	ND	382
			_						
COMP23	6	160	L	ND	ND	ND	ND	ND	125
COMP24	6	240	L	ND	ND	ND	ND	ND	108
COMP25	6	240	L	ND	ND	ND	ND	ND	230
0.7.1.7.7									
COMP26	6	240	L	ND	ND	ND	ND	ND	211
COMPAZ	6	160		ND	ND	ND	ND	ND	111
COMP27	6	160	L	ND	ND	ND	ND	ND	114
COMP28	6	160	L	ND	ND	ND	ND	ND	111
22.711 23		100		.,,,,	.,,,,	.,,5	.,,,,	.,,5	
COMP29	6	320	L	ND	ND	ND	ND	ND	640

	T	Т	ı	T	ı	T	ı	T	Т
COMP29A	8	320	L	ND	ND	ND	ND	ND	275
COMP30	6	320	L	ND	ND	ND	ND	ND	630
COMP30A	8	240	L	ND	ND	ND	ND	ND	274
COMP31	12	240	L	ND	ND	ND	ND	ND	209
COMP32	12	240	L	ND	ND	ND	ND	ND	216
COIVII 32	12	210		145	110	145	110	110	210
COMP33	6	160	L	ND	ND	ND	ND	ND	107
COIVIF33	0	100	L	IND	IND	IND	IND	IND	107
COMP34	2	240		ND	NID	ND	NID	ND	224
COMP34	2	240	L	ND	ND	ND	ND	ND	231
	_		-						
COMP35	2	320	L	ND	ND	ND	ND	ND	201
COMP36	2	320	L	ND	ND	ND	ND	ND	187
COMP37	2	240	L	ND	ND	ND	ND	ND	328
COMP38	2	240	L	ND	ND	ND	ND	ND	332
COMP39	2	320	L	ND	ND	ND	ND	ND	195
COMP40	6	320	L	ND	ND	ND	ND	ND	194
COMP41	6	160	L	ND	ND	ND	ND	ND	288
001111112		100		110	110	110	110	110	200
COMP42	6	160	L	ND	ND	ND	ND	ND	264
COIVIF 42	0	100	L	IND	IND	IND	IND	IND	204
COMP42	6	100	L	ND	NID	ND	NID	ND	200
COMP43	ь	160	L	ND	ND	ND	ND	ND	260
0011011	4.0	4.00							244
COMP44	12	160	L	ND	ND	ND	ND	ND	244
COMP45	12	160	L	ND	ND	ND	ND	ND	247
COMP46	12	160	L	ND	ND	ND	ND	ND	227
COMP47	4	320	L	ND	ND	ND	ND	ND	354
COMP48	4	320	L	ND	ND	ND	ND	ND	323

COMP49	4	240	L	ND	ND	ND	ND	ND	194
COMP50	4	240	L	ND	ND	ND	ND	ND	184
COMP51	4	240	L	ND	ND	ND	ND	ND	233
SWCOMP1	10	160	L	ND	ND	ND	ND	ND	130
SWCOMP2	10	160	L	ND	ND	ND	ND	ND	127
6144664456	_	4.50							100
SWCOMP3	4	160	L	ND	ND	ND	ND	ND	128
SWCOMP4	10	160		ND	ND	ND	ND	ND	127
SWCOMP4	10	160	L	ND	ND	ND	ND	ND	137
SWCOMP5	10	160	L	ND	ND	ND	ND	ND	119
SWCOIVII S	10	100		ND	ND	ND	ND	ND	113
SWCOMP6	14	160	L	ND	ND	ND	ND	ND	122
			_	.,,_	.,,_	.,,_	.,,,	.,,_	
SWCOMP7	14	160	L	ND	ND	ND	ND	ND	180
SWCOMP8	12	320	L	ND	ND	ND	ND	ND	181
SWCOMP9	12	320	L	ND	ND	ND	ND	ND	184
SWCOMP10	8	320	L	ND	ND	ND	ND	ND	178
SWCOMP11	8	320	L	ND	ND	ND	ND	ND	209
SWCOMP12	8	320	L	ND	ND	ND	ND	ND	209
SWCOMP13	12	320	L	ND	ND	ND	ND	ND	209

Please find the attached remediation photos.

The impacted area at Spill A measured 8,066 square feet. During the remediation phase, a total of 4,480 cubic yards of contaminated soil was excavated and transported to Gandy's Disposal. Additionally, 5,372 cubic yards of fill dirt was hauled from Gandy's Disposal to the site for backfilling, along with 216 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 Sandy Loam seed. Backfilling and seeding was completed on February 18, 2025. The final photos are attached to this report.

Closure Request

On behalf of Mack Energy, Energy Staffing Services, LLC formally requests the closure of the incident (NAPP2327756575) related to the produced water release at the West Mount Spill A pad and pasture area. Both Mack Energy and ESS certify that all information contained in this report is accurate and complete. Furthermore, both entities confirm compliance with all applicable closure requirements for this release.

Should you have any questions or concerns regarding this closure request after reviewing the report, please feel free to contact the undersigned at (575) 390-6397 or (575) 393-9048. Alternatively, you can email any inquiries to natalie@energystaffingllc.com.

Sincerely,

Director of Environmental and Regulatory Services

Patalie Grladde

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240

Cell: 575-390-6397 Office: 575-393-9048

Email: natalie@energystaffingllc.com



Attachments

Spill Notification

Initial C141 and Spill Calculator Form

Impact Map

Initial Site Photos

Site Map

Rangeland and Vegetation Classification

Soil Map

FEMA National Flood Hazard Layer Map

Karst Geology Map

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

Delineation Site Photos

Composite Notification

Composite Sample Data

Composite Sample Map and GPS Log

Lab analysis for Remediation

Remediation and Final Photos

Final C141



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

From Natalie Gladden <natalie@energystaffingllc.com>

Date Thu 1/30/2025 11:28 AM

To Brittney Corral
brittney@energystaffingllc.com>

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240 Cell: 575-390-6397 Office: 575-393-9048

Email: natalie@energystaffingllc.com



From: Natalie Gladden

Sent: Tuesday, September 26, 2023 2:39 PM

To: ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert,

 ${\tt EMNRD\,<\!Robert.Hamlet@state.nm.us>;\,Harimon,\,Jocelyn,\,EMNRD\,<\!Jocelyn.Harimon@emnrd.nm.gov>;\,Velez,\,Nelson,\,EMNRD\,<\!Archive.emple (Application of the Company of the C$

<Nelson.Velez@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Amos, James A <JAMOS@BLM.GOV>; staylor@blm.gov

Cc: mattbuckles@mec.com

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

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

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

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

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240 Cell: 575-390-6397 Office: 575-393-9048

Email: natalie@energystaffingllc.com



From: Natalie Gladden

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

To: ocdonline, emnrd, EMNRD < EMNRD.OCDOnline@state.nm.us >; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Hamlet, Robert,

EMNRD < Robert. Hamlet@state.nm.us >; Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov >; Velez, Nelson, EMNRD

<Nelson.Velez@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Amos, James A <JAMOS@BLM.GOV>; staylor@blm.gov

Cc: mattbuckles@mec.com

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

Importance: High

All,

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

LOCATION	BBLS RELEASED	BBLS RECOVERED	LAT	LONG	INCIDENT NO.
WEST MOUNT #1 RELEASE	96.64	0	32.978491	-104.094969	NAPP2325464608
WEST MOUNT 9.14.23 RELEASE	206.76	0	32.98084	-104.12499	NAPP2326353635
WEST MOUNT 1A	156.17	0	32.97852	-104.09253	
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
WEST MOUNT SPILL A	84.53	0	33.000002	-104.070796	
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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



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	NAPP2327756575
District RP	
Facility ID	
Application ID	

Release Notification

			Res	sponsib	le Party		
Responsible Party MACK ENERGY CORPORATION					OGRID 013837		
Contact Name MATT BUCKLES					Contact Telephone 575-703-1958		
Contact ema	il mattbuck	les@mec.com			Incident # (assigned by OCD)		
Contact mail 88210	ing address	11344 Lovington	Highway, Arte	esia NM			
			Location	n of Re	lease Source		
Latitude 33.0	00002		(NAD 83 in a		ongitude -104.070796 ees to 5 decimal places)		
Site Name W	EST MOU	NT SPILL A		S	Site Type PRODUCTION AREA		
Date Release	Discovered	9/20/2023		A	API# (if applicable) 30-005-64381		
Unit Letter	Section	Township	Range		County		
K	19	15S	29E	CHAV	HAVES		
			all that apply and attac		ns or specific justification for the volumes provided below)		
Crude Oil		Volume Release			Volume Recovered (bbls)		
	Water	Volume Release			Volume Recovered (bbls)0BBLS		
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	d chloride in	n the Yes No		
Condensa	te	Volume Release			Volume Recovered (bbls)		
☐ Natural G	☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units			t Released (provi	ide units)) Volume/Weight Recovered (provide units)		
Cause of Rel	ease						
		pany Well Sprin	g found a failure	e on their	lay flat line, releasing the fluid to the pasture area.		

Page 2

State of New Mexico	
Oil Conservation Divisio	1

Incident ID	NAPP2327756575	
District RP		
Facility ID		
Application ID		

Was this a major release as defined by 19.15.29.7(A) NMAC? ⊠ Yes □ No	If YES, for what reason(s) does the responsible party consider this a major release? DUE TO VOLUME OF RELEASE					
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? to the OCD, Bratcher, Hamlet, Venegas, on 9/22 at 4:12pm					
	Initial Response					
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury					
	ease has been stopped. as been secured to protect human health and the environment.					
_	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.					
	ecoverable materials have been removed and managed appropriately.					
Per 19 15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation					
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred 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 ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have at 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: 10/4/23					
email: natalie@energys	taffingll.com Telephone: 575-390-6397					
OCD Only						
Received by: Shelly We	Date: 10/5/2023					

MACK ENERGY - WEST MOUNT SPILL A

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	193.34	118.2	0.083	1896.7814	84.53	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	Х	10	10	0.083	8.3	1.48	Standing Liquids

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

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

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

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

Cubic Feet = L x W x D

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

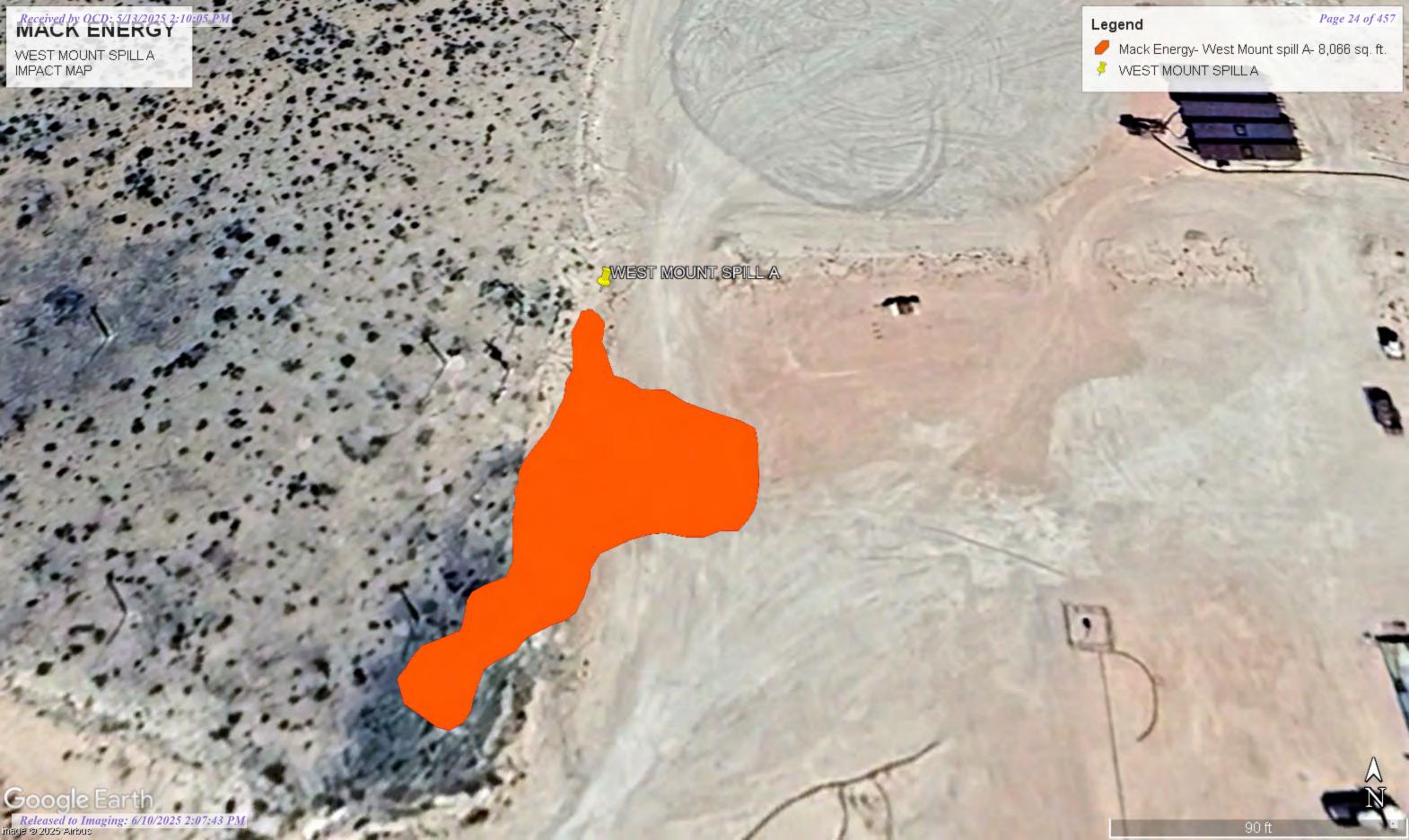
Action 272606

CONDITIONS

Operators	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	272606
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

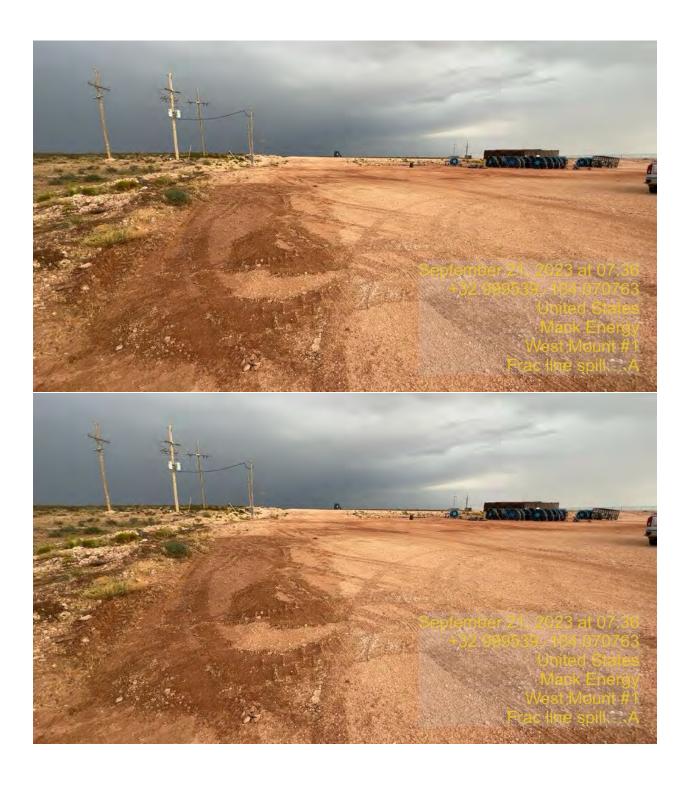
Created By		Condition Date
scwells	None	10/5/2023



MACK ENERGY: WEST MOUNT SPILL A INITIAL SITE PHOTOS















WEST MOUNT SPILL A

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.

WEST MOUNT SPILL A

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

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.

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		, , , , , , , , , , , , , , , , , , ,			Characteristic rangeland	Compositio				
name	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			
Aa—Alama loam										
Alama	Loamy (R070BC007NM) 1,200	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

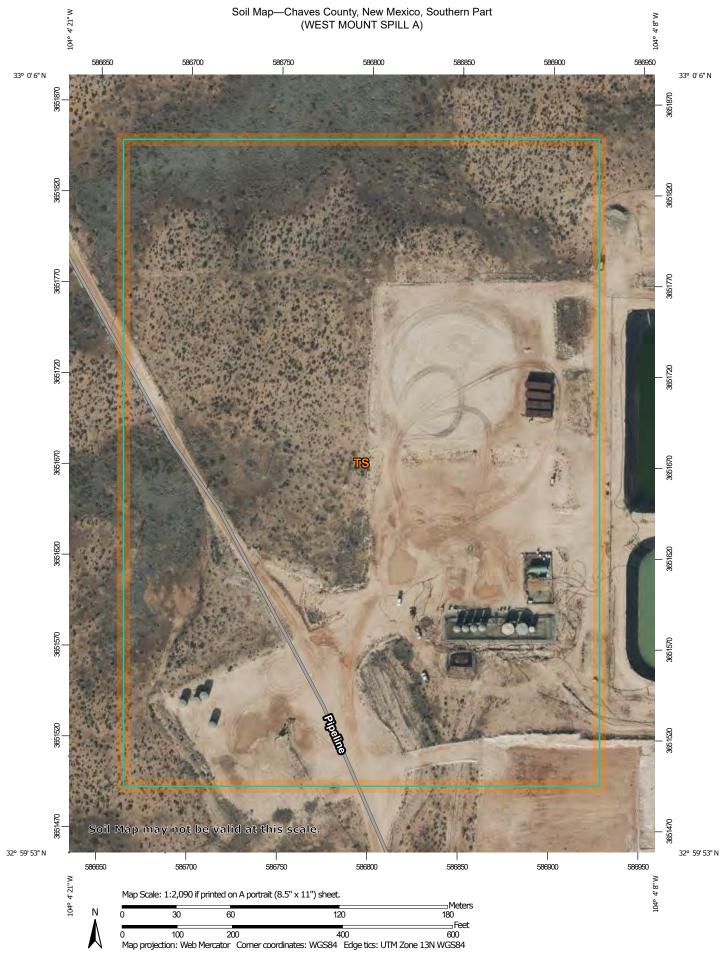
WEST MOUNT SPILL A

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part										
Map unit symbol and soil	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland	Compositio				
name		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 (WEST MOUNT SPILL A)

MAP LEGEND

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0

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

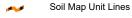
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot
Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

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.

WEST MOUNT SPILL A

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TS	Tencee-Sotim association	23.3	100.0%
Totals for Area of Interest		23.3	100.0%

Received by OCD: 5/13/2025 2:10:05 PM National Flood Hazard Layer FIRMette





Legend

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 FLOOD HAZARD Area with Flood Risk due to Levee Zone D 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

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 1:37 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.

point selected by the user and does not represent

an authoritative property location.

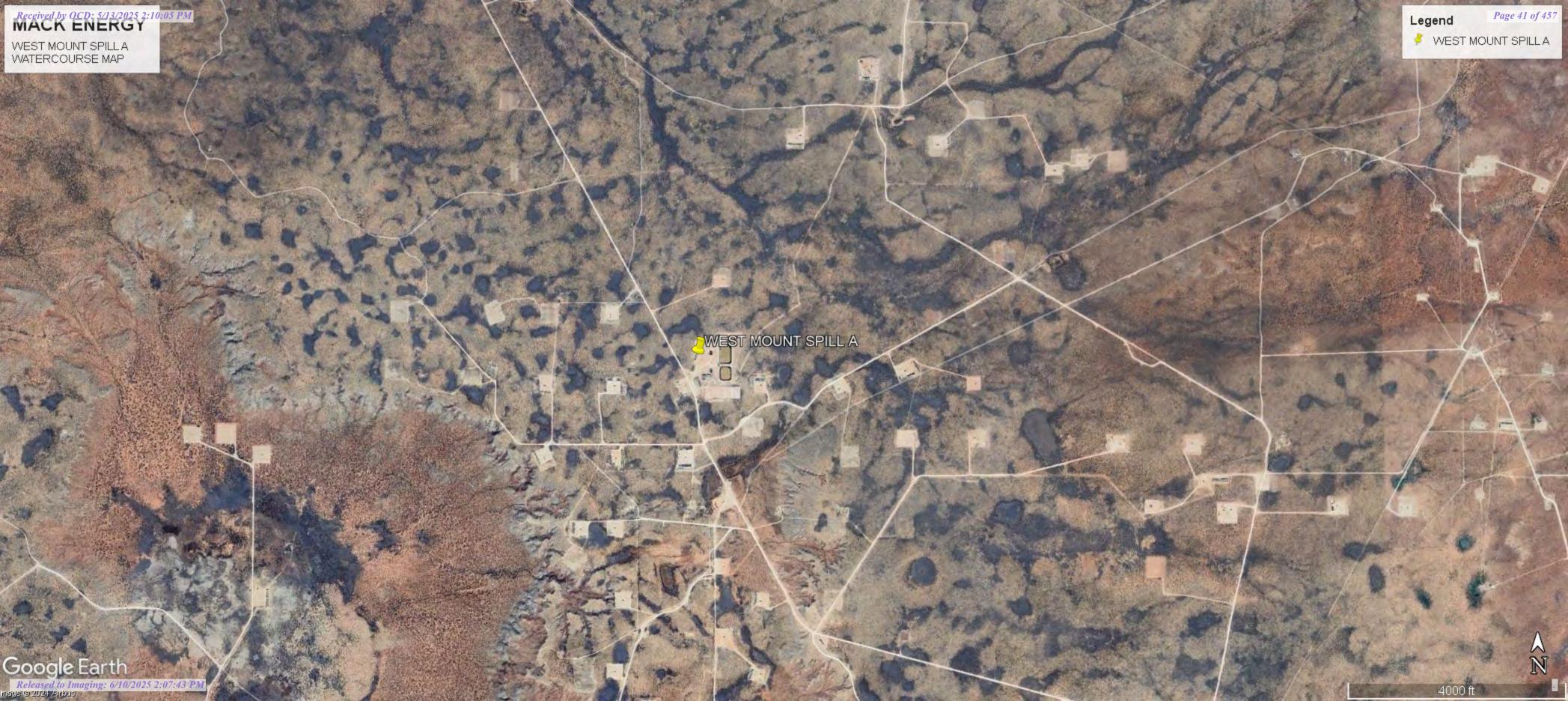
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



2,000







Received by OCD: 5/13/2025 2:10:05 PM Page 42 of 457



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

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586803.92 Northing (Y): 3651670.55 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.

Received by OCD: 5/13/2025 2:10:05 PM Page 43 of 457



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

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586803.92 Northing (Y): 3651670.55 Radius: 5000

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Received by OCD: 5/13/2025 2:10:05 PM Page 44 of 457



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

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

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

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

closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

POD Number	POD Sub- Code basin Coun	ty Source	q q q 6416 4		Tws	Rng	х	Y	Distance Start D	ate Finish Dat	Log File	Depth Well	Depth Water Driller	License Number
RA 12428	RA CH	Shallow	4 2 1	21	15S	28E	580579	3652317 🌍	6258 07/28/2	016 08/04/2016	08/08/2016	170	125 DONALD KUEHN III	1058
RA 09248	RA CH	Shallow	1 4 3	17	15S	28E	578704	3652884*	8190 07/10/1	996 07/13/1996	07/25/1996	150	45 RAYMOND ANDERSON	1344
RA 10280	RA CH	Shallow	4 3 3	17	15S	28E	578501	3652680*	8364 06/20/2	002 07/15/2002	2 04/23/2003	70	40 CARREON, FERNANDO	1490
RA 12429 POD1	RA CH	Shallow	1 1 4	32	15S	28E	579093	3648401 🎒	8375 11/17/2	016 11/17/2016	5 11/28/2016	62	27 EADES, ALAN	1044
RA 09059	RA CH	Shallow	2 4 4	18	15S	28E	578099	3652875*	8787 11/13/1	995 01/15/1996	02/08/1997	110	35 RAYMOND ANDERSON	1344
L 14514 POD1	L LE	Shallow	2 2 1	32	15S	36E	595494	3649622	8927 08/09/2	018 08/10/2018	3 08/17/2018	208	77 JOHN GOERTZEN	1611

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 586803.92 **Northing (Y):** 3651670.55 **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 12:06 PM Page 1 of 1 WELLS WITH WELL LOG INFORMATION



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

Υ X

RA 12428

21 15S 28E

580579

3652317

Driller License: Driller Company: KEY'S DRILLING & PUMP SERVICE 1058

Driller Name: DONALD KUEHN III

Drill Start Date: 07/28/2016 **Drill Finish Date:** Plug Date: 08/04/2016

Log File Date: 08/08/2016 **PCW Rcv Date:** Source: Shallow **Pump Type:** Pipe Discharge Size: Estimated Yield: 15 GPM **Casing Size: Depth Well: Depth Water:** 4.50 170 feet 125 feet

> **Top Bottom Description** Water Bearing Stratifications:

> > 140 Sandstone/Gravel/Conglomerate 125 140 160 Sandstone/Gravel/Conglomerate Sandstone/Gravel/Conglomerate 160

Top Bottom **Casing Perforations:**

> 125 170



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

Drill Start Date: 07/10/1996

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

4.50

RAYMOND ANDERSON

Drill Finish Date:

07/13/1996 Plug Date:

Ob all accord

Log File Date: 0

07/25/1996 **PCW** R

PCW Rcv Date:

Source:

Shallow

Pump Type: Casing Size:

Driller Name:

Pipe Discharge Size:
Depth Well:

150 feet

Depth Water:

Estimated Yield: 2 GPM

45 feet

Water Bearing Stratifications:

Top Bottom Description

50

60 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

45

100



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 10280

4 3 3 17 15S 28E

578501 3652680*



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

Driller Name: CARREON, FERNANDO

Drill Start Date: 06/20/2002

Drill Finish Date:

07/15/2002 Plu

Plug Date:

Log File Date:

04/23/2003

PCW Rcv Date:

Source: Shallow

Pump Type:

SUBMER

Pipe Discharge Size: 1.25

Estimated Yield: 10 GPM

Casing Size:

5.00

Depth Well:

70 feet

Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description

1 70 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

40 70



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

11/28/2016

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 12429 POD1

1 1 4 32 15S 28E

579093 3648401



Driller License: 1044

Driller Company: EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 11/17/2016

Drill Finish Date:

PCW Rcv Date:

11/17/2016 Plug Date:

Shallow

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Source:

Estimated Field.

Casing Size: 5.13

Depth Well:

62 feet

Depth Water: 27 feet

Water Bearing Stratifications: Top Bottom Description

33 Sandstone/Gravel/Conglomerate33 62 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

22 62

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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

4.50

Drill Start Date: 11/13/1995

Drill Finish Date:

Plug Date: 01/15/1996

Shallow

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

Depth Well:

Source: **Estimated Yield:**

Pump Type: Casing Size: Pipe Discharge Size:

110 feet

Depth Water:

35 feet

Water Bearing Stratifications:

Top Bottom Description

60

65 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

30 90

*UTM location was derived from PLSS - see Help

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Tws Rng Χ Map Sec RA 12006 POD1 29E 587049.3 NE NE SW 19 15S 3651703.3 * UTM location was derived from PLSS - see Help **Driller License: Driller Company: Driller Name: Drill Start Date: Drill Finish Date:** Plug Date: **PCW Rcv Date:** Log File Date: Source: **Pump Type: Pipe Discharge Size: Estimated Yield:** Casing Size: **Depth Well: Depth Water:**

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.

2/19/25 9:21 AM MST Point of Diversion Summary

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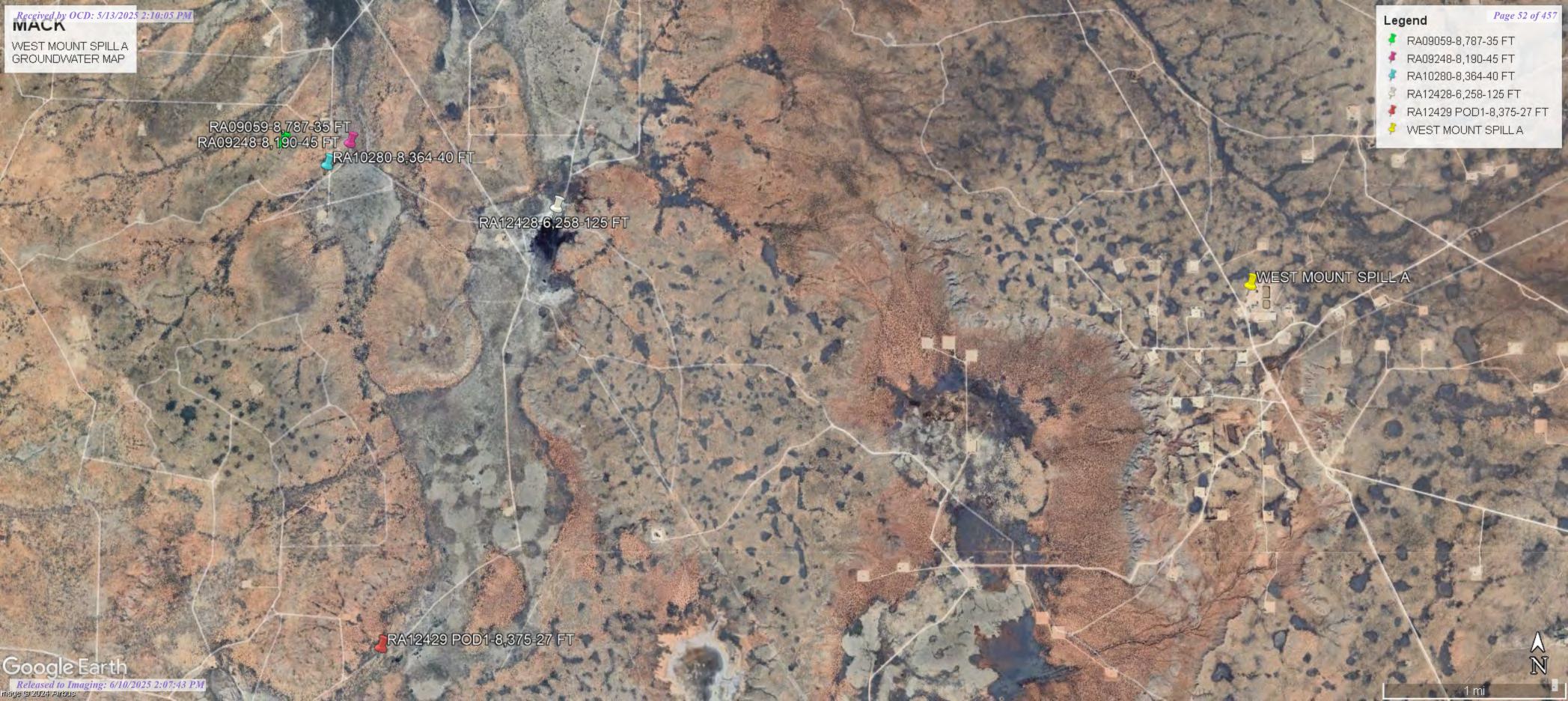
Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Tws Rng Χ Map Sec RA 12007 POD1 29E 586999.1 SE NE SW 19 15S 3651508.8 * UTM location was derived from PLSS - see Help **Driller License: Driller Company: Driller Name: Drill Start Date: Drill Finish Date:** Plug Date: **PCW Rcv Date:** Log File Date: Source: **Pump Type: Pipe Discharge Size: Estimated Yield:** Casing Size: **Depth Well: Depth Water:**

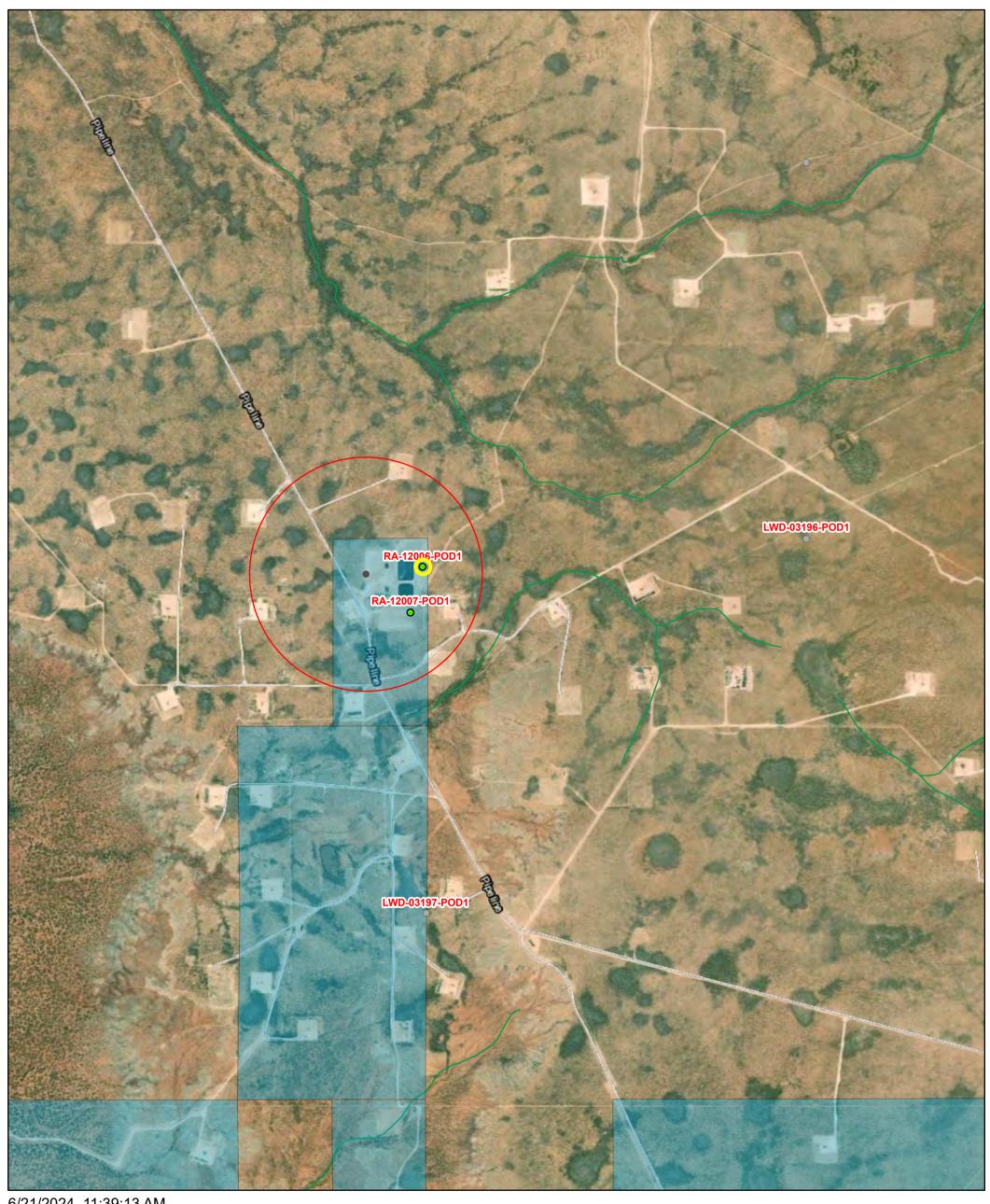
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2/19/25 9:18 AM MST Point of Diversion Summary

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OSE POD Location Map



6/21/2024, 11:39:13 AM GIS WATERS PODs

• Pending

New Mexico State Trust Lands

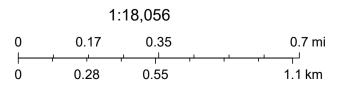
Pending

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 SPILL A Release Date:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	1120	L	ND	ND	ND	ND	ND	1070		
	2	1280									
	4	480									
	6	880									
	8	400									
	10	320									
	12	320	L	ND	ND	ND	ND	ND	258		
SP2	SURF	3600	L	ND	ND	ND	ND	ND	3240		
	2	240									
	4	320									
	6	400									
	8	320	L	ND	ND	ND	ND	ND	240		
SP3	SURF	3680	L	ND	ND	ND	ND	ND	4100		
	2	400									
	4	320	L	ND	ND	ND	ND	ND	226		
SP4	SURF	880	L	ND	ND	31.1	ND	31.1	864		
	2	320									
	4	160	L	ND	ND	ND	ND	ND	66.5		
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	6630		
	2	1440									
	4	1360									
	6	2000									
	8	1520									
	10	400									
	12	160	L	ND	ND	ND	ND	ND	62.9		
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	6560		

	2	1360								
	4	1280								
	6	1200								
	8	1440								
	10	160								
	12	320								
	14	80								
	16	80								
	18	80								
	20	80	L	ND	ND	ND	ND	ND	ND	
SP7	SURF	>4000	L	ND	ND	ND	ND	ND	5650	
	2	1600								
	4	880								
	6	480								
	8	400								
	10	400	L	ND	ND	ND	ND	ND	516	
SP8	SURF	>4000	L	ND	ND	ND	ND	ND	12000	
	2	560								
	4	720								
	6	160								
	8	80	L	ND	ND	ND	ND	ND	44.6	
SP9	SURF	>4000	L	ND	ND	ND	ND	ND	24100	
	2	80								
	4	560								
	6	160								
	8	160	L	ND	ND	ND	ND	ND	84.9	
SP10	SURF	>4000	L	ND	ND	ND	ND	ND	7540	
	2	320								
	4	240	L	ND	ND	ND	ND	ND	216	

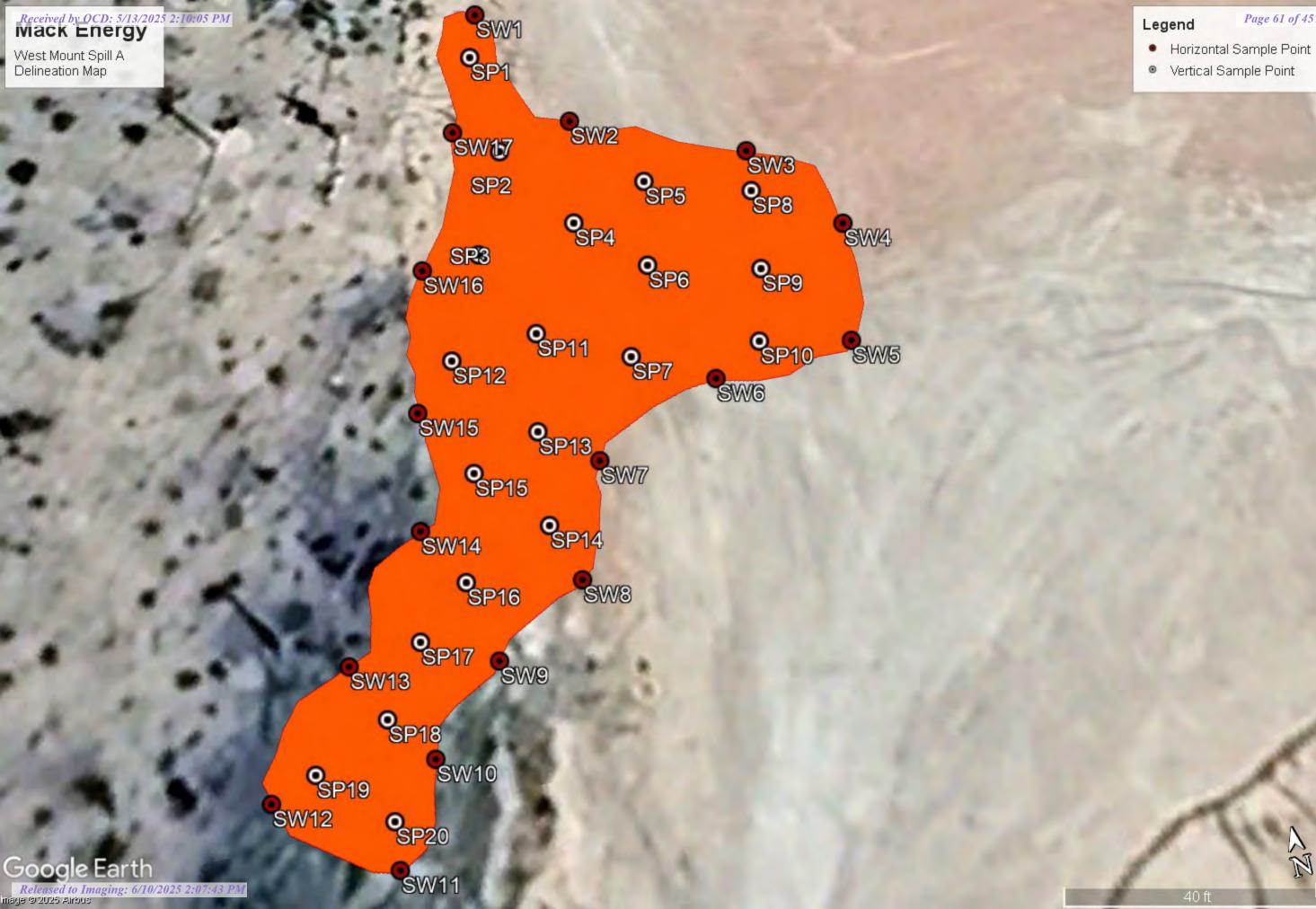
SP11	SURF	>4000	L,	ND	ND	ND	ND	ND	3880	
	2	240								
	4	240								
	6	80								
	8	80								
	10	80	L	ND	ND	ND	ND	ND	27.5	
SP12	SURF	>4000	L	ND	ND	ND	ND	ND	5960	
	2	800								
	4	560								
	6	320								
	8	400								
	10	240	L	ND	ND	ND	ND	ND	247	
SP13	SURF	>4000	L	ND	ND	28.4	50.4	78.8	11500	
	2	960								
	4	1280								
	6	2000								
	8	1760								
	10	1120								
	12	640								
	14	240								
	16	80	L	ND	ND	ND	ND	ND	24	
SP14	SURF	>4000	L	ND	ND	ND	ND	ND	10700	
	2	320								
	4	480								
	6	480	L	ND	ND	ND	ND	ND	604	
	8	480								
	10	480	L	ND	ND	ND	ND	ND	111	
SP15	SURF	>4000	L	ND	ND	ND	ND	ND	9240	
	2	640								
	4	720								

	6	480								
	8	720								
	10	400								
	12	320	L	ND	ND	ND	ND	ND	329	
SP16	SURF	>4000	L	ND	ND	ND	ND	ND	5580	
	2	960								
	4	320								
	6	480								
	8	560								
	10	400								
	12	320	L	ND	ND	ND	ND	ND	346	
SP17	SURF	480	L	ND	ND	ND	ND	ND	406	
	2	720								
	4	720								
	6	400								
	8	400	L	ND	ND	ND	ND	ND	388	
SP18	SURF	160	L	ND	ND	ND	ND	ND	56.1	
	2	160								
	4	160	L	ND	ND	ND	ND	ND	39.1	
SP19	SURF	2880	L	ND	ND	31.7	ND	31.7	3060	
	2	960								
	4	1200								
	6	1200								
	8	720								
	10	400								
	12	400	L	ND	ND	ND	ND	ND	428	
SP20	SURF	2800	L	ND	ND	ND	ND	ND	2860	
	2	640								
	4	1120								

	6	1120								
	8	640								
	10	320								
	12	320								
	14	160								
	16	160	L	ND	ND	ND	ND	ND	101	
SW1	SURF	800	L	ND	ND	ND	ND	ND	875	
	1	1040								
	2	960								
	3	400								
	4	320	L	ND	ND	ND	ND	ND	331	
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	5960	
	1	960								
	2	640								
	3	320								
	4	160	L	ND	ND	ND	ND	ND	212	
SW3	SURF	480	L	ND	ND	ND	ND	ND	502	
	1	400								
	2	320	L	ND	ND	ND	ND	ND	464	
SW4	SURF	400	Н	ND	ND	6650	ND	6650	208	
	1	1360								
	2	1200								
	3	480								
	4	240	L	ND	ND	ND	ND	ND	212	
SW5	SURF	>4000	L	ND	ND	26.3	ND	26.3	5190	
	1	720								
	2	960								
	3	560								
	4	400	L	ND	ND	ND	ND	ND	413	

SW6	SURF	>4000	L	ND	ND	25.6	ND	25.6	4870	
	1	2880								
	2	1120								
	3	400								
	4	240	L	ND	ND	ND	ND	ND	212	
SW7	SURF	>4000	L	ND	ND	ND	ND	ND	10500	
	1	1240								
	2	720								
	3	560								
	4	400	L	ND	ND	ND	ND	ND	537	
SW8	SURF	>4000	L	ND	ND	ND	ND	ND	9800	
	1	560								
	2	400	L	ND	ND	ND	ND	ND	310	
SW9	SURF	>4000	L	ND	ND	ND	ND	ND	10100	
	1	560								
	2	320	L	ND	ND	ND	ND	ND	235	
SW10	SURF	>4000	L	ND	ND	ND	ND	ND	8840	
	1	320								
	2	160	L	ND	ND	ND	ND	ND	137	
SW11	SURF	320	L	ND	ND	ND	ND	ND	310	
	1	480								
	2	240	L	ND	ND	ND	ND	ND	243	
SW12	SURF	>4000	L	ND	ND	ND	ND	ND	5720	
	1	560								
	2	480	L	ND	ND	ND	ND	ND	424	
SW13	SURF	>4000	Н	ND	ND	50.4	57.6	108	15200	

	1	160								
	2	160	L	ND	ND	ND	ND	ND	139	
SW14	SURF	320	Н	ND	ND	57.9	120	177.9	316	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	160	
SW15	SURF	>4000	L	ND	ND	ND	ND	ND	10800	
	1	240								
	2	160	L	ND	ND	ND	ND	ND	54.6	
SW16	SURF	640	L	ND	ND	ND	ND	ND	798	
	1	400								
	2	160	L	ND	ND	ND	ND	ND	121	
SW17	SURF	640	L	ND	ND	ND	ND	ND	753	
_	1	400								_
	2	240	L	ND	ND	ND	ND	ND	279	



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CLIENT: MACK ENERGY

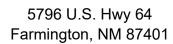
LOCATION: WEST MOUNT SPILL A

SAMPLE ID	LAT	LONG
SP1	32.999928°	-104.070808°
SP2	32.999850°	-104.070801°
SP3	32.999779°	-104.070828°
SP4	32.999790°	-104.070763°
SP5	32.999812°	-104.070710°
SP6	32.999753°	-104.070723°
SP7	32.999697°	-104.070748°
SP8	32.999793°	-104.070641°
SP9	32.999738°	-104.070652°
SP10	32.999692°	-104.070668°
SP11	32.999722°	-104.070802°
SP12	32.999715°	-104.070856°
SP13	32.999664°	-104.070813°
SP14	32.999612°	-104.070817°
SP15	32.999648°	-104.070854°
SP16	32.999592°	-104.070868°
SP17	32.999568°	-104.070897°
SP18	32.999536°	-104.070919°
SP19	32.999519°	-104.070958°
SP20	32.999492°	-104.070921°
SW1	32.999964°	-104.070798°
SW2	32.999866°	-104.070749°
SW3	32.999823°	-104.070635°
SW4	32.999759°	-104.070589°
SW5	32.999682°	-104.070612°
SW6	32.999674°	-104.070701°
SW7	32.999641°	-104.070781°
SW8	32.999581°	-104.070805°
SW9	32.999551°	-104.070857°
SW10	32.999514°	-104.070897°
SW11	32.999472°	-104.070921°
SW12	32.999511°	-104.070981°
SW13	32.999564°	-104.070936°
SW14	32.999623°	-104.070889°
SW15	32.999688°	-104.070881°
SW16	32.999775°	-104.070865°
SW17	32.999870°	-104.070830°

Report to:

Natalie Gladden





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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: Frac Line Spill A

Work Order: E311126

Job Number: 20046-0001

Received: 11/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

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: 11/17/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: Frac Line Spill A

Workorder: E311126

Date Received: 11/16/2023 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/16/2023 9:00:00AM, under the Project Name: Frac Line Spill A.

The analytical test results summarized in this report with the Project Name: Frac Line Spill A 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:	Frac Line Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 17:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-SURFACE	E311126-01A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW2-SURFACE	E311126-02A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW3-SURFACE	E311126-03A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW4-SURFACE	E311126-04A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW5-SURFACE	E311126-05A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW6-SURFACE	E311126-06A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW7-SURFACE	E311126-07A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW8-SURFACE	E311126-08A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW9-SURFACE	E311126-09A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW10-SURFACE	E311126-10A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW11-SURFACE	E311126-11A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW12-SURFACE	E311126-12A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW13-SURFACE	E311126-13A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW14-SURFACE	E311126-14A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW15-SURFACE	E311126-15A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW16-SURFACE	E311126-16A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW17-SURFACE	E311126-17A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW1-SURFACE

E311126-01						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		92.8 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2346087
Chloride	875	20.0	1	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW2-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		87.6 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2346087
	5960	200	10	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW3-SURFACE

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		86.5 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: BA		Batch: 2346087
Chloride	502	20.0	1	11/16/23	11/16/23	•



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW4-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	6650	50.0	2	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	100	2	11/16/23	11/16/23	
Surrogate: n-Nonane		86.6 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2346087
Allions by ETA 500.0/7050A						



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SW5-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	26.3	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		83.4 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2346087
	5190	200	10	11/16/23	11/16/23	·



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW6-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analysi	t: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	25.6	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		81.5 %	50-200	11/16/23	11/16/23	
	mg/kg	mg/kg	Analysi	:: BA		Batch: 2346087
Anions by EPA 300.0/9056A	mg/Kg	mg ng	,			



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW7-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		78.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346087
Chloride	10500	400	20	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW8-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		80.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2346087



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW9-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		80.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346087
Chloride	10100	400	20	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW10-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		89.2 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2346087
Chloride	8840	200	10	11/16/23	11/16/23	·



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW11-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		90.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2346087
Milons by E171500:0/7030/1						



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW12-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		86.1 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2346087
Chloride	5720	200	10	11/16/23	11/16/23	•



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW13-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	50.4	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	57.6	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		88.0 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2346087
	15200	400	20	11/16/23	11/16/23	•



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW14-SURFACE

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	57.9	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	120	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		91.3 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2346087
Chloride	316	20.0	1	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW15-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		84.2 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2346087
Chloride	10800	400	20	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW16-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		91.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2346087
Chloride	798	20.0	1	11/16/23	11/16/23	•



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

SW17-SURFACE

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2346082
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2346082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2346077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		88.8 %	50-200	11/16/23	11/17/23	
	ma/ka	mg/kg	Ana	ılyst: BA		Batch: 2346087
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1 1110	,		Battern: 25 10007



		QC SI	umma	iry Dat	a				
Mack Energy 7 W. Compress Road		Project Name: Project Number:		rac Line Spill 0046-0001	A				Reported:
Artesia NM, 88210		Project Manager:	N	atalie Gladder	1				11/17/2023 5:23:36PM
		Volatile O	rganics b	y 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 (2346082-BLK1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23
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	7.67		8.00		95.9	70-130			
LCS (2346082-BS1)							Prepared: 1	1/16/23 A	nalyzed: 11/17/23
Benzene	5.26	0.0250	5.00		105	70-130			
Ethylbenzene	5.18	0.0250	5.00		104	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.20	0.0250	5.00		104	70-130			
o,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	7.75	0.0250	8.00		96.8	70-130 70-130			
Surrogate: 4-Bromochlorobenzene-PID	/./3		8.00		90.0	/0-130			
Matrix Spike (2346082-MS1)				Source:	E311126-0	03	Prepared: 1	1/16/23 A	nalyzed: 11/17/23
Benzene	4.98	0.0250	5.00	ND	99.7	54-133			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133			
Toluene	4.96	0.0250	5.00	ND	99.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
o,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			
Matrix Spike Dup (2346082-MSD1)					E311126-0				nalyzed: 11/17/23
Benzene	5.02	0.0250	5.00	ND	100	54-133	0.751	20	
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133	1.18	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	0.925	20	
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131	0.976	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.20	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	1.13	20	



70-130

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	Frac Line Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			11	/17/2023 5:23:36PM
	Non	halogenated	Organics l	oy EPA 80	15D - GI	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 (2346082-BLK1)							Prepared: 1	1/16/23 Ana	lyzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			
LCS (2346082-BS2)							Prepared: 1	1/16/23 Ana	lyzed: 11/17/23
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			
Matrix Spike (2346082-MS2)				Source:	E311126-0)3	Prepared: 1	1/16/23 Ana	lyzed: 11/17/23
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			
Matrix Spike Dup (2346082-MSD2)				Source:	E311126-0)3	Prepared: 1	1/16/23 Ana	lyzed: 11/17/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

Mack Energy	Project Name:	Frac Line Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:23:36PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1			1	1/1//2023 5:23:36PN
	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 (2346077-BLK1)							Prepared: 1	1/16/23 Ar	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.9	50-200			
LCS (2346077-BS1)							Prepared: 1	1/16/23 Ar	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			
Matrix Spike (2346077-MS1)				Source:	E311100-4	13	Prepared: 1	1/16/23 Ar	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			
Matrix Spike Dup (2346077-MSD1)				Source:	E311100-4	13	Prepared: 1	1/16/23 Ar	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	2.85	20	
Gurrogate: n-Nonane	47.7		50.0		95.5	50-200			



Mack Energy		Project Name:		rac Line Spill	A				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		20046-0001 Natalie Gladden					11/17/2023 5:23:36PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	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 (2346087-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346087-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2346087-MS1)				Source:	E311126-0	18	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	10300	400	250	9800	210	80-120			M4
Matrix Spike Dup (2346087-MSD1)				Source:	E311126-0	18	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	9860	400	250	9800	23.9	80-120	4.60	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

Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 17:23

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.



Received by OCD: 5/13/2025 2:10:05 PM

Project: Fre like Spill &				Δ.		Bill To	THORA .	-			ab Us	se On			TAT EPA Program					
Project:	Manager:	Worth li	SPULL	adden	1 1-	Attention: ENERGY STAFFING SER Address: 2724 NW COUNTY RD	VICES		WO#			Job I	Numb	er	1D	2D	3D	Standard	CWA	SDWA
Address		Avioni	5 0	ALACON .		City, State, Zip HOBBS, NM 8824	1	EC	211	19	0			1000		7		Verscoon.		
City, Stat					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Phone: 575-393-9048	9.	-	1			Analy	sis an	d Metho	1	1	1 1	_ White		RCRA
Phone:					100	mail: NATALIE@ENERGYSTAFFING	I C COM	150	IS									230 INS.	State	
Email:					7	BRITTNEY@ENERGYSTAFFINGLLC.COM		by 8015	801	Lan.			0					NMI CO	UT AZ	TX
Report	Report due by:			BATTINET@ENERGISTAFFINGLEC.COM			O by	8021	8260	010	300.0		NN	×		VIVI CO	OT AZ	11/		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO	GRO/DRO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride		ВСБОС	ВСБОС			Remarks	
	1/14/23	5	1	5W1-	Sur	ace	l								X					
)	Sw 2-	Su	face	2								1					
				SW3 -	Sv	1 Face	3													
				SW4 -	- 5	rface	4													
				565	- SL	stace	5													
				SWG	- 5	viface	6													
				Sw7	-5	urface														
				SW8	- <	our face	8													
		1		- P WE	. <	surface	9													
	11/14/13	5	1	SW 10	- 5	our face	10								V					
Addition	nal Instruc	tions:																		
I, (field sam	pler), attest to	the validity	and authent	ticity of this sample.	I am awa	re that tampering with or intentionally mislabe	lling the sample	location	on		-	Sample	s recuiri	ng thermal n	eservat	tion mus	st he rece	ived on ice the day ti	nev are sample	d or corollad
date or time	e of collection	is considere	d fraud and r	may be grounds for I	egal actio	n. Sampled by: A NOu	10-09		J.,									C on subsequent day		ic of received
Dand	ed by: (Sign:	File	Date	14/23 Time		Received by: (Signature)	Date U-15-c	23	Time	+3	D	Rece	ived	on ice:	/ 4	b Us	e Only	/ Sylver		
GALI		ud	Date	15-23 Time	730	Received by: (Signature)	Date V		Time	00)	T1			T2	,		T3		
Relinquish	ed by: (Signa	iture)	Date	Time		Received by: (Signature).	Date		Time			AVG	Tem	°C	4			1		
Sample Mar	trix: S - Soil, So	- Solid, Sg -	Sludge, A - A	Aqueous, O - Other _			Container	Type	:g-p	lass.					relac	S V -	VOA			
Note: Sam	ples are disc	arded 30 d	ays after re	sults are reported	unless	other arrangements are made. Hazardous	samples will	be ret	urned	to clie	ent or	dispos	sed of	at the clier	nt exp	ense.	The re	port for the anal	vsis of the	bove
samples is	applicable of	nly to thos	e samples i	received by the lat	oratory	with this COC. The liability of the laborato	ne is limited to	then	moun	t naid	for o	those	2000			-				32.50



Project Information

Chain	of	Custody
CHICHI	0.	-usicou,

lient: M	Aiv 1	- NOTES	4		-	Bill To		7.0	A)	La	b Us	e On	ly				TA	T		EPA P	rogram
	Frac		A	io: U		Attention: ENERGY STAFFING SE	RVICES	Lab	WO#	-1	THE R	Job	Num	ber .	1D	2D	3D	Stan	dard	CWA	SDWA
				adder	1	Address: 2724 NW COUNTY RD		E?	112	12	0	20	24	(000)		X		-			
Address:		p-1000	.00.1	00,000	1	City, State, Zip HOBBS, NM 882	40					Analy	ysis ar	nd Method	ł						RCRA
City, State	e, Zip				10.45	Phone: 575-393-9048												1	100		
hone:					ATT	Email: NATALIE@ENERGYSTAFFING	GLLC.COM	315	015									1	v 1 co	State	l Total
mail:						BRITTNEY@ENERGYSTAFFIN	NGLLC.COM	by 8(by 8(171	9	0	0.00		S	×			-	UT AZ	. IX
Report du	ie pA:				8.30			ORO	ORO	y 80	y 82	2 601	de 3			100		1	A		
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	верос		1		Remarks	5
	14/23	5	1	SWI	1-	surface	11								X						
	(1	1	SWI	2- <	sviface sviface	12														
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							1 F.T.			<u></u>						L					
Addition	al Instruc	tions:																			
				nticity of this sai		aware that tampering with or intentionally misla action. Sampled by:	A COC	e locat	tion,					uiring thermal at an avg tem							pled or receive
	ed by: (Signa		Dat		Time	Received by: (Signature)	Date 11'	52	Time	14	30	Re	ceive	d on ice:		ab U	se Or	ıly			
Relinquish	ed/by: (Sign	sture)	Dat	45-23	Time (Beceived by: (Signature)	Date	2	_	70	Ó	T1			T2			I	3		
Relinquish	ed by: (Signa	ature)	Dat	te	Time	Received by: (Signature)	Date		Time	!		AV	G Te	mp °C	4						
Sample Mat	trix; S - Soil, So	d - Solid, Se	- Sludge, A -	Aqueous, O - O	ther_		Containe	er Typ	e: g -	glass	s, p -	poly/	plasti	c, ag - amt	oer gla	iss, v	- VOA				
Note: Sam	ples are disc	carded 30	days after i	results are rep	orted unle	ess other arrangements are made. Hazard	lous samples wi	I be re	eturne	d to c	lient	or disp	oosed	of at the cli	ent ex	pense	. The	report fo	or the an	alysis of th	e above
samples is	applicable of	only to tho	se samples	received by t	he laborat	tory with this COC. The liability of the labor	atory is limited	to the	amou	nt pa	id for	on the	e repo	rt.							C



Printed: 11/16/2023 10:47:39AM

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:	11/16/23	09:00	Work Order ID:	E311126
Phone:	(575) 390-6397 I	Date Logged In:	11/15/23	15:28	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/17/23	17:00 (1 day TAT)		
Chain of C	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location matcl	h the COC	Yes			
3. Were sai	mples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No			
	samples received within holding time? Note: Analysis, such as pH which should be conducted in ti.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
	Ire, 15 influe fold time, are not included in this disucssion arm Around Time (TAT)			[
	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not prov	ided on COC by
Sample Co	· •				client.	·
	imple cooler received?		Yes			
	ras cooler received in good condition?		Yes			
9. Was the	sample(s) received intact, i.e., not broken?		Yes			
	ustody/security seals present?		No			
	were custody/security seals intact?		NA			
12. Was the	sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are 1		Yes			
	minutes of sampling sible ice, record the temperature. Actual sample to	emperature: 4°	<u>C</u>			
Sample Co	ontainer_					
14. Are aqu	ueous VOC samples present?		No			
15. Are VO	OC samples collected in VOA Vials?		NA			
16. Is the h	ead space less than 6-8 mm (pea sized or less)?		NA			
17. Was a t	rip blank (TB) included for VOC analyses?		NA			
18. Are no	n-VOC samples collected in the correct containers?		Yes			
19. Is the ap	ppropriate volume/weight or number of sample containe	rs collected?	Yes			
Field Labo	<u>el</u>					
	ield sample labels filled out with the minimum inform	mation:				
	mple ID?		Yes			
	te/Time Collected? llectors name?		Yes Yes			
	reservation		165			
	ne COC or field labels indicate the samples were pres	served?	No			
	mple(s) correctly preserved?		NA			
	ilteration required and/or requested for dissolved me	tals?	No			
	e Sample Matrix					
_	ne sample have more than one phase, i.e., multiphase	:?	No			
	does the COC specify which phase(s) is to be analyz		NA			
			1411			
	ct Laboratory	·9	No			
	riples required to get sent to a subcontract laboratory		No NA	Subcontract Lab	: NA	
	subcontract laboratory specified by the client and if s					

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: Frac Line Spill A

Work Order: E311127

Job Number: 20046-0001

Received: 11/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

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: 11/17/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: Frac Line Spill A

Workorder: E311127

Date Received: 11/16/2023 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/16/2023 9:00:00AM, under the Project Name: Frac Line Spill A.

The analytical test results summarized in this report with the Project Name: Frac Line Spill A 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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whinchman@envirotech-inc.com

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Michelle Golzales

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

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:	Frac Line Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported.
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 17:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP-1-SURF	E311127-01A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-2-SURF	E311127-02A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-3-SURF	E311127-03A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-4-SURF	E311127-04A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-5-SURF	E311127-05A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-6-SURF	E311127-06A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-7-SURF	E311127-07A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-8-SURF	E311127-08A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-9-SURF	E311127-09A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-10-SURF	E311127-10A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-11-SURF	E311127-11A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-12-SURF	E311127-12A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-13-SURF	E311127-13A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-14-SURF	E311127-14A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-15-SURF	E311127-15A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-16-SURF	E311127-16A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-17-SURF	E311127-17A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-18-SURF	E311127-18A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-19-SURF	E311127-19A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP-20-SURF	E311127-20A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-1-SURF E311127-01

	E311127-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: RAS		Batch: 2346083
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0500	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
	92.6 %	70-130	11/16/23	11/17/23	
mg/kg	mg/kg	Analy	vst: RAS		Batch: 2346083
ND	20.0	1	11/16/23	11/17/23	
	91.1 %	70-130	11/16/23	11/17/23	
mg/kg	mg/kg	Analy	vst: KM		Batch: 2346078
ND	25.0	1	11/16/23	11/16/23	
ND	50.0	1	11/16/23	11/16/23	
	99.6 %	50-200	11/16/23	11/16/23	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2346088
1070	20.0	1	11/16/23	11/16/23	
	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 mg/kg mg/kg MB/kg mg/kg MB/kg mg/kg ND 25.0 ND 50.0 99.6 % 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 92.6 % 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 Mg/kg Mg/kg Analy Mg/kg Mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/16/23 ND 0.0250 1 11/16/23 ND 0.0250 1 11/16/23 ND 0.0500 1 11/16/23 ND 0.0250 1 11/16/23 MD 0.0250 1 11/16/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/16/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/16/23 ND 50.0 1 11/16/23 ND 50.0 1 11/16/23 Mg/kg Mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/16/23 11/17/23 ND 0.0250 1 11/16/23 11/17/23 ND 0.0250 1 11/16/23 11/17/23 ND 0.0500 1 11/16/23 11/17/23 ND 0.0250 1 11/16/23 11/17/23 ND 0.0250 1 11/16/23 11/17/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/16/23 11/17/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/16/23 11/17/23 ND 25.0 1 11/16/23 11/16/23 ND 50.0 1 11/16/23 11/16/23 ND 50.0 1 11/16/23 11/16/23 Mg/kg mg/kg Analyst: BA



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-2-SURF

E311127-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		104 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2346088
	3240	40.0	2	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-3-SURF

E311	127-03
------	--------

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		99.6 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2346088
Chloride	4100	40.0	2	11/16/23	11/16/23	-



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-4-SURF

E311127-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	31.1	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		100 %	50-200	11/16/23	11/16/23	
	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2346088
Anions by EPA 300.0/9056A	mg/Kg	1118/118		•		



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-5-SURF

E311127-05						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		91.6 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346088
Chloride	6630	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-6-SURF

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		90.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		83.9 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2346088
	6560	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-7-SURF

E311127-07						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		72.7 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2346088
Chloride	5650	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-8-SURF

E311127-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		70.8 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2346088
Chloride	12000	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-9-SURF

E311127-09						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		94.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2346088
Chloride	24100	400	20	11/16/23	11/17/23	



Chloride

Sample Data

Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-10-SURF

		E311127-10				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		96.0 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	Analyst: BA		Batch: 2346088

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11/16/23

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11/16/23



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-11-SURF

E311127-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RAS		Batch: 2346083		
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		94.3 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346088
Chloride	3880	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-12-SURF

E311127-12

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		91.6%	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		94.9 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346088
Chloride	5960	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-13-SURF

E31	177	-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	28.4	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	50.4	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		100 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2346088
Chloride	11500	400	20	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-14-SURF

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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		97.8 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2346088
Chloride	10700	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-15-SURF

		E311127-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		96.0 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346088
Chloride	9240	200	10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-16-SURF

E31			

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		95.6 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2346088
	5580	200	10	11/16/23	11/17/23	·



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-17-SURF

E31		

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		97.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		93.0 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2346088
	406	20.0		11/16/23	11/17/23	



Chloride

Sample Data

Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-18-SURF

E311127-18						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		98.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2346088

20.0

56.1

11/16/23

11/17/23



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-19-SURF

E311127-19	E31	11	27	-1	9
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		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	31.7	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		104 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2346088
Chloride	3060	40.0	2	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

SP-20-SURF

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: RAS		Batch: 2346083
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: RAS		Batch: 2346083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: KM		Batch: 2346078
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		99.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: BA		Batch: 2346088
Chloride	2860	40.0	2	11/16/23	11/17/23	



		QC bi	A 1 1 1 1 1 1 0	ary Data					
Mack Energy		Project Name:		rac Line Spill A					Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		V046-0001 Vatalie Gladden					11/17/2023 5:11:46PM
Artesia Ivivi, 66210		Troject Manager.	1	datane Gladden					11/1//2023 3.11.401 WI
		Volatile O	ganics	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 (2346083-BLK1)							Prepared: 1	1/16/23 A	nalyzed: 11/17/23
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	7.93		8.00		99.1	70-130			
LCS (2346083-BS1)							Prepared: 1	1/16/23 A	nalyzed: 11/17/23
Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.1	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			
Matrix Spike (2346083-MS1)				Source: E	311127-(04	Prepared: 1	1/16/23 A	nalyzed: 11/17/23
Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.5	61-133			
Toluene	5.15	0.0250	5.00	ND	103	61-130			
o-Xylene	5.06	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.4	70-130			
Matrix Spike Dup (2346083-MSD1)				Source: E	311127-(04	Prepared: 1	1/16/23 A	nalyzed: 11/17/23
Benzene	4.34	0.0250	5.00	ND	86.8	54-133	17.5	20	
Ethylbenzene	4.17	0.0250	5.00	ND	83.3	61-133	16.7	20	
Toluene	4.33	0.0250	5.00	ND	86.7	61-130	17.2	20	
o-Xylene	4.27	0.0250	5.00	ND	85.3	63-131	16.9	20	
p,m-Xylene Total Xylenes	8.62 12.9	0.0500 0.0250	10.0 15.0	ND ND	86.2 85.9	63-131 63-131	16.2 16.4	20 20	

8.00

7.50

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	Frac Line Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	1			1	1/17/2023 5:11:46PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	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 (2346083-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			
LCS (2346083-BS2)							Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			
Matrix Spike (2346083-MS2)				Source:	E311127-()4	Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			
Matrix Spike Dup (2346083-MSD2)				Source:	E311127-0)4	Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.2	70-130	13.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



Mack Energy	Project Name:	Frac Line Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:11:46PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			I	1/17/2023 5:11:46Pf
	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 (2346078-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	50-200			
LCS (2346078-BS1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			
Matrix Spike (2346078-MS1)				Source:	E311127-0	06	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			
Matrix Spike Dup (2346078-MSD1)				Source:	E311127-0	06	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	279	25.0	250	ND	111	38-132	2.67	20	
Gurrogate: n-Nonane	52.0		50.0		104	50-200			



Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:			Reported: 11/17/2023 5:11:46PM				
Allesia Mi, 00210				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 (2346088-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346088-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	273	20.0	250		109	90-110			
Matrix Spike (2346088-MS1)				Source: F	2311127-1	0	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	8240	200	250	7540	280	80-120			M4
Matrix Spike Dup (2346088-MSD1)				Source: F	E311127-1	0	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	8300	200	250	7540	304	80-120	0.720	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

Mack 1	Energy	Project Name:	Frac Line Spill A	
7 W. C	ompress Road	Project Number:	20046-0001	Reported:
Artesia	n NM, 88210	Project Manager:	Natalie Gladden	11/17/23 17:11

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.



Project Information

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Chain of Custody

Page ______ of _____

Client: Mark Energy Project: Load Auge 1921 A.				Bill To			-	La	b Us	e Onl	V	art of the		TAT				EPA P	rogram		
Project:	ad }	une I	gill f	-10/0-	At	tention: ENERGY STAFFING SEI	RVICES		WO#	1	il	Job N	lum	7.77		2D			andard	CWA	SDWA
Project N	hanager:	1040	ne Cyk	adden	A	fdress: 2724 NW COUNTY RD	E3112			2-			analysis and Methor			K	1	_			DCDA
Address:						ty, State, Zip HOBBS, NM 8824	0					Analys	sis ai	nd Metr	lod	-	-	1			RCRA
City, Stat	e, Zip				-	ione: 575-393-9048													A LE IT	Chat	
Phone:					Er	nail: NATALIE@ENERGYSTAFFING	LLC.COM	015	8015	a l	1									State	l mil
Email:	-					BRITTNEY@ENERGYSTAFFIN	GLLC.COM	GTTC.COM 8 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					NM CO	UT AZ	IX						
Report d	ue by:				5 4			ORO .	ORO	by 8021	y 82	9	Je 3						4		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	втех	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	
	4/25	S	1	Sp. 1 -			l								4)					
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				SP-3-	Surt		3														
				SD-4	- port		4														
				SP5	- Surb		5														
				SP-6	Durt		6														
				5p-I -	Surt		7														
				30-8	- 2wa	5	8														
				SR-9	- Sur	5	9														
	14/12	5	1	SQ- 10	- 200	7	10								k						
Addition	nal Instruc	tions:							J								-	-	1		
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	ed by: (Sign	ature	Date		Time	Received by: (Signature)	Date 15-15-	2)	Time	137)	Rece	eive	d on ice	: (Lab Y)/	Use O	nly			
Relinquished by: (Signature) Date Time Received by: (Signature)				Date																	
Relinquished by: (Signature) Date Time Received by: (Signature)			Date		Time			AVG	Ter	np °C_	L										
Sample Ma	trive C. Cail C	d - Solid Sa	- Sludge A	Aqueous, O - O	ther		Containe	or Tyn	6:6-	plass	D-r				nber s	lass.	/ - VO/	A	-		
						other arrangements are made. Hazardo													t for the an	alysis of the	above
						with this COC. The liability of the laboral															44,45,45



Project Information

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Chain of Custody

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Page .	2	of 🏎

Received by OCD: 5/13/2025 2:10:05 PM

Page 32 of 33

Client: Mack Energy Project: Grack Gine Will A						Bill To				La	b Us	e Only	/		TAT EPA Prog					rogram
Project:	track !	ine	Mig	A		ttention: ENERGY STAFFING SI	ERVICES		WO#			Job N			1D	2D	3D	Standard	CWA	SDWA
Project N	Wanager:	Vata	ie Ol	addur) A	ddress: 2724 NW COUNTY RD		E3	311	2=	+	20046-0001				4				
Address:			10000			ity, State, Zip HOBBS, NM 882	240					Analys	is and	Metho	d			0.00		RCRA
City, Sta	te, Zip				-	hone: 575-393-9048												A TOTAL		
Phone:					E	mail: NATALIE@ENERGYSTAFFIN	GLLC.COM	015	8015									1	State	
Email:						BRITTNEY@ENERGYSTAFFI	NGLLC.COM	0y 8(by 8(121	09	0	0.00		ΣN			NM CO	UT AZ	TX
Report o	lue by:		1					ORO	ORO	oy 80	y 82	2 603	de 3			¥		A		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	верос			Remarks	
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	j	1		Spi2-	0		12													
				SP13-	Surf		13													
				S714 -	Surf		14													
				Sp15-	Swit		15													
				SP16-	surt		16													
				SP17 -	Swif		17													
				SPIS -	Durk		18													
				8719 -	Surf		19													
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Addition	nal Instruc	tions:																		
16.60				ticity of this sa may be ground		are that tampering with or intentionally misl.	abelling the sample		ion,			A COLUMN TO A COLU						lived on ice the day °C on subsequent d		led or received
Relinquish	ned by (Sign	ature)	Date		Time	Received by: (Signaffice)	Date 11-15	27	Time 14	(30)	Rece	ived	on ice:	/	ab U	se Onl	У		
Much Cank 11-15-23 1738 (1864)					Date Date	2	Time	7:0	0	T1			<u>T2</u>			<u></u>				
Relinquished by: (Signature) Date Time Received by: (Signature)				Date		Time			AVG	Tem	°C_	4								
Sample Ma	trix: S - Soil. S	d - Solid. Sg	- Sludge. A -	Aqueous, O - O	ther		Containe	r Typ	e:g-	glass.	p - p				er gla	ss, v	VOA			
Note: San	nples are disc	arded 30	days after r	esults are rep	orted unless	other arrangements are made. Hazard	ous samples wil	l be re	turne	d to cli	ient o	r dispos	sed of	at the cli	ent exp	oense.	The re	eport for the an	alysis of the	above



Printed: 11/16/2023 10:48:03AM

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:	11/16/23 09:0	00		Work Order ID:	E311127
Phone:	(575) 390-6397	Date Logged In:	11/15/23 15:3	32		Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/17/23 17:0	00 (1 day TAT)			
	Custody (COC)						
	e sample ID match the COC?	. 1 .1 .000	Yes				
	te number of samples per sampling site location man	tch the COC	Yes				
	amples dropped off by client or carrier?	. 1 1 0	Yes	Carrier: <u>C</u>	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No Vac				
	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 disucssion.		Yes	Γ		Comments	:/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		Time samp	led not provi	ded on COC by
Sample C	· •		100		client.	-	•
	ample 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				
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	e received w/i 15	Yes				
Sample C	Container_						
14. Are ac	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 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>el</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID? ate/Time Collected?		Yes	_			
	ollectors name?		Yes Yes				
	reservation		163				
	the COC or field labels indicate the samples were pr	reserved?	No				
	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				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborato	ry?	No				
	subcontract laboratory specified by the client and in	•		ubcontract Lab	: NA		
Client In	struction						
							0

Page 33 of 33

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 Spill A

Work Order: E402166

Job Number: 20046-0001

Received: 2/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/21/24

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: 2/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill A

Workorder: E402166

Date Received: 2/20/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/20/2024 5:30:00AM, under the Project Name: West Mount Spill A.

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

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Office: 505-421-LABS(5227)

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 Spill A	Donoute de
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/21/24 15:44

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SP 1 -12'	E402166-01A Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SP 2 -8'	E402166-02A Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SP 3 -4'	E402166-03A Soil	02/16/24	02/20/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:44:41PM

SP 1 -12' E402166-01

		E402166-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Thatye	resur	- Emili	Direction	Trepured	7 mary zea	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		108 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2408034
Chloride	258	20.0	1	02/20/24	02/20/24	



Mack Energy	Project Name:	West Mount Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:44:41PM

SP 2 -8'

E402166-02

Zed Notes Batch: 2408030 /24 /24 /24 /24
Batch: 2408030 //24 //24
/24 /24 /24
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Batch: 2408030
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Batch: 2408033
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/24
Batch: 2408034
(1) (1)



Mack Energy	Project Name:	West Mount Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:44:41PM

SP 3 -4'

E402166-03

	Reporting				
Result	Limit	Dilutio	n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: EG		Batch: 2408030
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0500	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
	93.2 %	70-130	02/20/24	02/21/24	
mg/kg	mg/kg	An	alyst: EG	: EG	
ND	20.0	1	02/20/24	02/21/24	
	95.8 %	70-130	02/20/24	02/21/24	
mg/kg	mg/kg	ng/kg Analyst: KM			Batch: 2408033
ND	25.0	1	02/20/24	02/21/24	
ND	50.0	1	02/20/24	02/21/24	
	110.07	50-200	02/20/24	02/21/24	
	110 %	30-200	02/20/24	02/21/27	
mg/kg	110 % mg/kg		alyst: DT	02/21/27	Batch: 2408034
	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 95.8 % mg/kg ND 25.0	Result Limit Dilution mg/kg mg/kg An 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 An ND 20.0 1 95.8 % 70-130 mg/kg mg/kg An ND 25.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0500 1 02/20/24 ND 0.0250 1 02/20/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 mg/kg mg/kg Analyst: KM mg/kg mg/kg Analyst: KM ND 25.0 1 02/20/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/20/24 02/21/24 ND 0.0500 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/20/24 02/21/24



West Mount Spill A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/21/2024 3:44:41PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2408030-BLK1) Prepared: 02/20/24 Analyzed: 02/20/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.51 8.00 93.8 70-130 LCS (2408030-BS1) Prepared: 02/20/24 Analyzed: 02/20/24 4.31 86.3 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.31 0.0250 5.00 86.2 70-130 4.30 0.0250 5.00 86.0 70-130 Toluene 84.9 o-Xylene 4.24 0.0250 5.00 70-130 8.70 10.0 87.0 70-130 0.0500 p.m-Xvlene 86.3 12.9 15.0 70-130 Total Xylenes 0.0250 8.00 92.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.39 Matrix Spike (2408030-MS1) Source: E402165-01 Prepared: 02/20/24 Analyzed: 02/20/24 4.49 0.0250 5.00 ND 54-133 Benzene ND 89.9 61-133 Ethylbenzene 4.50 0.0250 5.00 Toluene 4.48 0.0250 5.00 ND 89.7 61-130 4.44 ND 88.9 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.08 0.0500 10.0 ND 90.8 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.54 8.00 Matrix Spike Dup (2408030-MSD1) Source: E402165-01 Prepared: 02/20/24 Analyzed: 02/20/24 4.78 0.0250 5.00 ND 54-133 6.14 4.79 61-133 6.32 0.0250 5.00 ND 95.8 20 Ethylbenzene 61-130 Toluene 4 77 0.0250 5.00 ND 954 6.21 20 4.72 5.00 ND 94.4 63-131 6.09 20 o-Xylene 0.0250 9.66 10.0 ND 96.6 63-131 6.18 20 p,m-Xylene 0.0500 Total Xylenes 14.4 0.0250 15.0 ND 95.9 63-131 6.15 20

8.00

94.7

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.57

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:44:41PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1				2/21/2024 3:44:41PM	
	Nor	Nonhalogenated Organics by EPA 8015D - GRO						Analyst: EG		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2408030-BLK1)							Prepared: 0	2/20/24 A	nalyzed: 02/20/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130				
LCS (2408030-BS2)							Prepared: 0	2/20/24 A	nalyzed: 02/20/24	
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130				
Matrix Spike (2408030-MS2)				Source:	E402165-	01	Prepared: 0	2/20/24 A	nalyzed: 02/20/24	
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130				
Matrix Spike Dup (2408030-MSD2)				Source:	E402165-	01	Prepared: 0	2/20/24 A	nalyzed: 02/20/24	
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	2.24	20		

8.00

96.6

70-130

7.73

Mack Energy	Project Name:	West Mount Spill A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:44:41PM

Artesia NM, 88210		Project Manager	r: Na	ıtalie Gladder	1			2	/21/2024 3:44:41PM
	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 (2408033-BLK1)							Prepared: 0	2/20/24 Ana	alyzed: 02/20/24
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.0		50.0		112	50-200			
CS (2408033-BS1)							Prepared: 0	2/20/24 Ana	alyzed: 02/20/24
riesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
urrogate: n-Nonane	60.4		50.0		121	50-200			
Matrix Spike (2408033-MS1)				Source:	E402165-	02	Prepared: 0	2/20/24 Ana	alyzed: 02/20/24
riesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
urrogate: n-Nonane	61.6		50.0		123	50-200			
Matrix Spike Dup (2408033-MSD1)				Source:	E402165-	02	Prepared: 0	2/20/24 Ana	alyzed: 02/20/24
tiesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	6.21	20	
urrogate: n-Nonane	57.8		50.0		116	50-200			



Mack Energy		Project Name:		est Mount Spi	ill A				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager		0046-0001 atalie Gladder	1				2/21/2024 3:44:41PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				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 (2408034-BLK1)							Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	ND	20.0							
LCS (2408034-BS1)							Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2408034-MS1)				Source:	E402165-)2	Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2408034-MSD1)				Source:	E402165-)2	Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	257	20.0	250	ND	103	80-120	0.739	20	

QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/21/24 15:44

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client:	Mack &	nergu			Bill To		150	-	L	ab Us	se On	ly		T		TA	T	EPA P	rogram
Project:	Mack E West I Nanager:	Tourt	Spill	LA_	Attention: ENERGY STAFFING SER Address: 2724 NW COUNTY RD	VICES	Lab	WO	210	260	Job i	Num	ber - nmi	1D	2D X	3D	Standard	CWA	SDWA
Address:				26	City, State, Zip HOBBS, NM 88240	City, State 7 in HOBBS, NM 88240		EIUZIUP		Job Number 2004(- 000) Analysis and Metho							RCRA		
City, Stat	e, Zip				Phone: 575-393-9048		-	T	1		- I	3,3 6.	I	T			1815		INCIA
Phone:				1	Email: NATALIE@ENERGYSTAFFINGI	LC.COM	151	15										State	
mail:					BRITTNEY@ENERGYSTAFFING		by 8015	/801	-			0.0		-			NM/CO	UT AZ	TX
Report d	ue by:						30 b	10 P	805	8260	5010	300		NM	×				
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		верос	ВСРОС			Remarks	
	02/10	5		SD 1-12		J								1					
	02/10	5	1	Sp 2-8	S'	2								V					
	02/16	5	1	Sp3-4	,	3								/					
									T										
					~														
						1/6													
							-	-		-									
								-	-					-					
Addition	al Instruc	tions:																	
- Tuuliul	iai mstruc	cions.																	
				icity of this sample. I ar	m aware that tampering with or intentionally mislabe	lling the sampl	e locat	ion,									eived on ice the day ⁶ C on subsequent da		ed or received
Relinquish	ed by: (Sign			/10/24 Time	Received by: (Signature)	Date		Time	32	6	Rece	eivec	on ice:	-	ab U	se Onl	у		
Relinquish	ed by: (Sign	egu L	Date		Received by: (Signature)	Date 2-19.		Hime	730	`	T1	. IVC	on icc.	T2			T3		
1	ed by: (Sign	atuae)	Date		Received by: (Signature)			Time	~~\ <~	^		Ton	1p °C				119		
And Sample Ma		d - Solid, Se	-	Aqueous, O - Other	1 military in 1400	-							ag - amb		SS W	VOA			
					nless other arrangements are made. Hazardou												eport for the ans	lysis of the	ahove
samples is	applicable of	only to thos	se samples i	received by the labor	atory with this COC. The liability of the laborator	ry is limited t	n the	amou	nt nai	d for c	n the	renort						, is or the	

Printed: 2/20/2024 1:56:38PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

Client: Mack Energy	Date Received:	02/20/24 (05:30	Work Order ID	: E402166
Phone: (575) 390-6397	Date Logged In:	02/19/24 1	7:11	Logged In By:	Alexa Michaels
Email: Natalie@energystaffingllc.com	Due Date:	02/21/24	17:00 (1 day TAT)		
Chain of Custody (COC)					
1. Does the sample ID match the COC?		Yes			
Does the number of samples per sampling site location mate	the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: C	ourier	
4. Was the COC complete, i.e., signatures, dates/times, request	cd analyses?	No			
 Were 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 disucssio 		Yes	,	Comm	ents/Resolution
Sample Turn Around Time (TAT)				Project Manager and	time compled not
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes		-	time sampled not
Sample Cooler				documented on COC	
7. Was a sample cooler received?		Yes			
B. If yes, was cooler received in good condition?		Yes			
9. Was the sample(s) received intact, i.e., not broken?		Yes			
10. Were custody/security seals present?		No	j		
11. If yes, were custody/security seals intact?		NA			
12. Was the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling 13. If no visible ice, record the temperature. Actual sample	received w/i 15	Yes <u>C</u>			
Sample Container					
14. Are aqueous VOC samples present?		No			
15. Are VOC samples collected in VOA Vials?		NA			
6. Is the head space less than 6-8 mm (pea sized or less)?		NA			
7. Was a trip blank (TB) included for VOC analyses?		NA			
18. Are non-VOC samples collected in the correct containers?		Yes			
19. Is the appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field Label					
20. Were field sample labels filled out with the minimum info	rmation:				
Sample ID?		Yes			
Date/Time Collected?		Yes	•		
Collectors name?		Yes			
Sample Preservation 21. Does the COC or field labels indicate the samples were pro	eserved?	No			
22. Are sample(s) correctly preserved?	Joer vou.	NA			
24. Is lab filteration required and/or requested for dissolved m	etals?	No			
<u>Multiphase Sample Matrix</u> 26. Does the sample have more than one phase, i.e., multiphas	ച	Ma			
26. Does the sample have more than one phase, i.e., multiplies 27. If yes, does the COC specify which phase(s) is to be analy		No NA			
	evu:	NA			
Subcontract Laboratory	_				
28. Are samples required to get sent to a subcontract laborator		No		***	
Was a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA	
Client Instruction					

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 A

Work Order: E402182

Job Number: 20046-0001

Received: 2/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/22/24

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: 2/22/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E402182

Date Received: 2/21/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/21/2024 5:30:00AM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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 A	Donouted
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/22/24 17:24

Client Sample ID	Lab Sample ID Matrix	Sampled Reco	eived Container	
Sp. 4-4'	E402182-01A Soil	02/19/24 02/2	1/24 Glass Jar, 2 oz.	
Sp. 5-12'	E402182-02A Soil	02/19/24 02/2	1/24 Glass Jar, 2 oz.	
Sp. 6-20'	E402182-03A Soil	02/19/24 02/2	1/24 Glass Jar, 2 oz.	
Sp. 7-10'	E402182-04A Soil	02/19/24 02/2	1/24 Glass Jar, 2 oz.	
Sn. 8-8'	F402182-05A Soil	02/19/24 02/2	1/24 Glass Jar. 2 oz.	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:24:52PM

Sp. 4-4' E402182-01

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2408049
Benzene	ND	0.0250		1	02/21/24	02/21/24	
Ethylbenzene	ND	0.0250		1	02/21/24	02/21/24	
Toluene	ND	0.0250		1	02/21/24	02/21/24	
o-Xylene	ND	0.0250		1	02/21/24	02/21/24	
p,m-Xylene	ND	0.0500		1	02/21/24	02/21/24	
Total Xylenes	ND	0.0250		1	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		84.2 %	70-130		02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2408049
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		84.2 %	70-130		02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2408048
Diesel Range Organics (C10-C28)	ND	25.0		1	02/21/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0		1	02/21/24	02/21/24	
Surrogate: n-Nonane		87.6 %	50-200		02/21/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2408057
Chloride	66.5	20.0		1	02/21/24	02/22/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:24:52PM

Sp. 5-12' E402182-02

Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst: RAS		Batch: 2408049
Volatile Organic Compounds by EPA 8260B	ND	0.0250	1	02/21/24	02/21/24	Batch. 240004)
Benzene	ND ND	0.0250	1	02/21/24	02/21/24	
Ethylbenzene Toluene	ND ND	0.0250	1	02/21/24	02/21/24	
	ND ND	0.0250	1	02/21/24	02/21/24	
o-Xylene	ND ND	0.0230	1	02/21/24	02/21/24	
p,m-Xylene Total Xylenes	ND ND	0.0300	1	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/21/24	02/21/24	
Surrogate: Toluene-d8		83.7 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2408049
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/21/24	02/21/24	
Surrogate: Toluene-d8		83.7 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2408048
Diesel Range Organics (C10-C28)	ND	25.0	1	02/21/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/24	02/21/24	
Surrogate: n-Nonane		90.5 %	50-200	02/21/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2408057
Chloride	62.9	20.0	1	02/21/24	02/22/24	

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:24:52PM

Sp. 6-20' E402182-03

Result			tion	Prepared	Analyzed	Notes
Result	Limit	Dilui	tion	Trepared	Anaryzeu	Notes
mg/kg	mg/kg	I	Analyst: R	AS		Batch: 2408049
ND	0.0250	1		02/21/24	02/21/24	
ND	0.0250	1		02/21/24	02/21/24	
ND	0.0250	1		02/21/24	02/21/24	
ND	0.0250	1		02/21/24	02/21/24	
ND	0.0500	1		02/21/24	02/21/24	
ND	0.0250	1		02/21/24	02/21/24	
	103 %	70-130		02/21/24	02/21/24	
	102 %	70-130		02/21/24	02/21/24	
	95.2 %	70-130		02/21/24	02/21/24	
mg/kg	mg/kg	1	Analyst: R	AS		Batch: 2408049
ND	20.0	1		02/21/24	02/21/24	
	103 %	70-130		02/21/24	02/21/24	
	102 %	70-130		02/21/24	02/21/24	
	95.2 %	70-130		02/21/24	02/21/24	
mg/kg	mg/kg	1	Analyst: K	M		Batch: 2408048
ND	25.0	1		02/21/24	02/22/24	
ND	50.0	1		02/21/24	02/22/24	
	87.3 %	50-200		02/21/24	02/22/24	
mg/kg	mg/kg	1	Analyst: D	T		Batch: 2408057
ND	20.0	1		02/21/24	02/22/24	
	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 ND 0.0250 I03 % 102 % 95.2 % mg/kg MD 20.0 I03 % 102 % 95.2 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0 87.3 % mg/kg mg/kg mg/kg	mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 103 % 70-130 102 % 70-130 95.2 % 70-130 mg/kg mg/kg ND 20.0 1 103 % 70-130 95.2 % 70-130 mg/kg mg/kg ND 25.0 1 ND 50.0 1 87.3 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: R 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 70-130 102% 95.2% 70-130 70-130 mg/kg mg/kg Analyst: R ND 20.0 1 103% 70-130 70-130 95.2% 70-130 70-130 mg/kg mg/kg Analyst: K ND 25.0 1 ND 50.0 1 87.3% 50-200 mg/kg Analyst: D	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RAS ND 0.0250 1 02/21/24 ND 0.0250 1 02/21/24 ND 0.0250 1 02/21/24 ND 0.0250 1 02/21/24 ND 0.0500 1 02/21/24 ND 0.0250 1 02/21/24 ND 0.0250 1 02/21/24 102 % 70-130 02/21/24 95.2 % 70-130 02/21/24 mg/kg mg/kg Analyst: RAS ND 20.0 1 02/21/24 103 % 70-130 02/21/24 95.2 % 70-130 02/21/24 95.2 % 70-130 02/21/24 95.2 % 70-130 02/21/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/21/24 ND 50.0 1 02/21/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS ND 0.0250 1 02/21/24 02/21/24 ND 0.0500 1 02/21/24 02/21/24 ND 0.0250 1 02/21/24 02/21/24 ND 0.0250 1 02/21/24 02/21/24 102 % 70-130 02/21/24 02/21/24 95.2 % 70-130 02/21/24 02/21/24 mg/kg mg/kg Analyst: RAS ND 20.0 1 02/21/24 02/21/24 102 % 70-130 02/21/24 02/21/24 95.2 % 70-130 02/21/24 02/21/24 mg/kg mg/kg Analyst: KM ND 50.0 1



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:24:52PM

Sp. 7-10' E402182-04

Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Analyce	Result	Liiiit	Dilu	ition	Trepared	Maryzed	rotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2408049
Benzene	ND	0.0250	1	l	02/21/24	02/21/24	
Ethylbenzene	ND	0.0250	1	l	02/21/24	02/21/24	
Toluene	ND	0.0250	1	l	02/21/24	02/21/24	
p-Xylene	ND	0.0250	1	l	02/21/24	02/21/24	
o,m-Xylene	ND	0.0500	1	l	02/21/24	02/21/24	
Total Xylenes	ND	0.0250	1	l	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		96.9 %	70-130		02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	RAS		Batch: 2408049
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		96.9 %	70-130		02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2408048
Diesel Range Organics (C10-C28)	ND	25.0	1		02/21/24	02/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[02/21/24	02/22/24	
Surrogate: n-Nonane		84.3 %	50-200		02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2408057
Chloride	516	20.0	1	1	02/21/24	02/22/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:24:52PM

Sp. 8-8' E402182-05

Result			tion Drag	ared A	nalyzed	Notes
Result	Limit	Dilut	tion Trep	arcu A	Maryzeu	Notes
mg/kg	mg/kg	A	Analyst: RAS			Batch: 2408049
ND	0.0250	1	02/2	1/24 0	2/21/24	
ND	0.0250	1	02/2	1/24 0	02/21/24	
ND	0.0250	1	02/2	1/24 0	02/21/24	
ND	0.0250	1	02/2	1/24 0	02/21/24	
ND	0.0500	1	02/2	1/24 0	02/21/24	
ND	0.0250	1	02/2	1/24 0	02/21/24	
	103 %	70-130	02/2	1/24 0	02/21/24	
	112 %	70-130	02/2	1/24 0	02/21/24	
	89.8 %	70-130	02/2	1/24 0	02/21/24	
mg/kg	mg/kg	A	Analyst: RAS			Batch: 2408049
ND	20.0	1	02/2	1/24 0)2/21/24	
	103 %	70-130	02/2	1/24 0	02/21/24	
	112 %	70-130	02/2	1/24 0	02/21/24	
	89.8 %	70-130	02/2	1/24 0	02/21/24	
mg/kg	mg/kg	A	Analyst: KM			Batch: 2408048
ND	25.0	1	02/2	1/24 0)2/22/24	
ND	50.0	1	02/2	1/24 0)2/22/24	
	85.0 %	50-200	02/2	1/24 0	02/22/24	
mg/kg	mg/kg	A	Analyst: DT			Batch: 2408057
44.6	20.0	1	02/2	1/24 0)2/22/24	
	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 89.8% mg/kg mg/kg ND 20.0 103 % 112 % 89.8 % 89.8 % mg/kg mg/kg ND 25.0 ND 50.0 85.0 % mg/kg mg/kg mg/kg	mg/kg mg/kg ng/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 103 % 70-130 89.8 % 70-130 mg/kg mg/kg 1 103 % 70-130 112 % 70-130 89.8 % 70-130 mg/kg mg/kg 1 ND 25.0 1 ND 50.0 1 85.0 % 50-200 mg/kg mg/kg 4	Result Limit Dilution Preprint mg/kg mg/kg Analyst: RAS ND 0.0250 1 02/2 ND 0.0250 1 02/2 ND 0.0250 1 02/2 ND 0.0500 1 02/2 ND 0.0500 1 02/2 ND 0.0250 1 02/2 112 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 112 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130 02/2 89.8 % 70-130<	Result Limit Dilution Prepared A mg/kg mg/kg Analyst: RAS 02/21/24 0 ND 0.0250 1 02/21/24 0 ND 0.0250 1 02/21/24 0 ND 0.0250 1 02/21/24 0 ND 0.0500 1 02/21/24 0 ND 0.0250 1 02/21/24 0 ND 0.0250 1 02/21/24 0 103 % 70-130 02/21/24 0 89.8 % 70-130 02/21/24 0 mg/kg mg/kg Analyst: RAS ND 20.0 1 02/21/24 0 40 4 112 % 70-130 02/21/24 0 89.8 % 70-130 02/21/24 0 0 89.8 % 70-130 02/21/24 0 89.8 % 70-130 02/21/24 0 89.8 % 70-130	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS ND 0.0250 1 02/21/24 02/21/24 ND 0.0500 1 02/21/24 02/21/24 ND 0.0250 1 02/21/24 02/21/24 ND 0.0250 1 02/21/24 02/21/24 112 % 70-130 02/21/24 02/21/24 89.8 % 70-130 02/21/24 02/21/24 mg/kg mg/kg Analyst: RAS ND 20.0 1 02/21/24 02/21/24 12 % 70-130 02/21/24 02/21/24 12 % 70-130 02/21/24 02/21/24 89.8 % 70-130 02/21/24 02/21/24 mg/kg mg/kg<



Mack Energy Project Name: West Mount A Reported:
7 W. Compress Road Project Number: 20046-0001
Artesia NM, 88210 Project Manager: Natalie Gladden 2/22/2024 5:24:52PM

Volatile Organic Compounds by EPA 8260B Analyst: RAS

	V	olatile Organ	ic Compo	unds by El	PA 82601	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 (2408049-BLK1)							Prepared: 0	2/21/24 An	alyzed: 02/21/24	
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	0.512		0.500		102	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130				
Surrogate: Toluene-d8	0.448		0.500		89.6	70-130				
LCS (2408049-BS1)							Prepared: 0	2/21/24 An	alyzed: 02/21/24	
Benzene	2.81	0.0250	2.50		113	70-130				
Ethylbenzene	2.27	0.0250	2.50		90.9	70-130				
Toluene	2.26	0.0250	2.50		90.3	70-130				
o-Xylene	2.22	0.0250	2.50		88.9	70-130				
p,m-Xylene	4.37	0.0500	5.00		87.4	70-130				
Total Xylenes	6.59	0.0250	7.50		87.9	70-130				
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130				
Surrogate: Toluene-d8	0.448		0.500		89.5	70-130				
Matrix Spike (2408049-MS1)				Source:	E402182-	01	Prepared: 0	2/21/24 An	alyzed: 02/21/24	
Benzene	2.85	0.0250	2.50	ND	114	48-131				
Ethylbenzene	2.47	0.0250	2.50	ND	98.7	45-135				
Toluene	2.43	0.0250	2.50	ND	97.3	48-130				
o-Xylene	2.33	0.0250	2.50	ND	93.1	43-135				
p,m-Xylene	4.53	0.0500	5.00	ND	90.6	43-135				
Total Xylenes	6.86	0.0250	7.50	ND	91.4	43-135				
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130				
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130				
Matrix Spike Dup (2408049-MSD1)				Source:	E402182-	01	Prepared: 0	2/21/24 An	alyzed: 02/21/24	
Benzene	2.88	0.0250	2.50	ND	115	48-131	1.14	23		
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135	4.14	27		
Toluene	2.32	0.0250	2.50	ND	92.8	48-130	4.69	24		
o-Xylene	2.35	0.0250	2.50	ND	94.1	43-135	1.07	27		
p,m-Xylene	4.59	0.0500	5.00	ND	91.8	43-135	1.36	27		
Total Xylenes	6.94	0.0250	7.50	ND	92.6	43-135	1.26	27		
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130				
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130				
surrogate. 10tuene-ao	0.449		0.500		07.7	/ 0-130				



QC Summary Data

West Mount A Mack Energy Project Name: Reported: Project Number: 20046-0001 7 W. Compress Road Artesia NM, 88210 Project Manager: Natalie Gladden 2/22/2024 5:24:52PM

M. J. J	^ · · · · · · · · · · · · · · · · · · ·	L EDA	0015D	CDO
Nonhalogenated	Organics	DV EPA	80151) -	CTKO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408049-BLK1)							Prepared: 0	2/21/24 Analy	yzed: 02/21/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.448		0.500		89.6	70-130			
LCS (2408049-BS2)							Prepared: 0	2/21/24 Analy	yzed: 02/21/24
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.446		0.500		89.2	70-130			

Matrix Spike (2408049-MS2)				Source: E402182-01			Prepared: 02/21/24 Analyzed: 02/21/24
Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.3	70-130	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130	
Surrogate: Toluene-d8	0.455		0.500		90.9	70-130	

Matrix Spike Dup (2408049-MSD2)				Source:	E402182-0)1	Prepared: 02	2/21/24 Analyzed: 02/21/24
Gasoline Range Organics (C6-C10)	39.5	20.0	50.0	ND	79.0	70-130	2.88	20
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130		
Surrogate: Toluene-d8	0.451		0.500		90.1	70-130		



Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:24:52PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			2	2/22/2024 5:24:52PI
	Nonhal	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 (2408048-BLK1)							Prepared: 02	2/21/24 An	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.8		50.0		91.5	50-200			
LCS (2408048-BS1)							Prepared: 02	2/21/24 An	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	222	25.0	250		89.0	38-132			
Surrogate: n-Nonane	42.4		50.0		84.8	50-200			
Matrix Spike (2408048-MS1)				Source:	E402182-	03	Prepared: 02	2/21/24 An	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			
Matrix Spike Dup (2408048-MSD1)				Source:	E402182-	03	Prepared: 02	2/21/24 An	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132	0.810	20	
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			



Chloride

QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:	20	est Mount A 046-0001					Reported:
Artesia NM, 88210		Project Manager		atalie Gladden					2/22/2024 5:24:52PM
		Anions	by EPA 3	00.0/9056A	L				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 (2408057-BLK1)							Prepared: 02	2/21/24 A	nalyzed: 02/21/24
Chloride	ND	20.0							
LCS (2408057-BS1)							Prepared: 02	2/21/24 A	nalyzed: 02/21/24
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2408057-MS1)				Source:	E402170-	03	Prepared: 02	2/21/24 A	nalyzed: 02/22/24
Chloride	792	20.0	250	494	120	80-120			
Matrix Spike Dup (2408057-MSD1)				Source:	E402170-	03	Prepared: 0	2/21/24 A	nalvzed: 02/22/24

250

20.0

80-120

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 A	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/22/24 17:24

M2 Matrix spike recovery was outside quality control limits. 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.



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: 2/21/2024 8:22:34AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

	no response concerning these items within 24 hours of	the date of this not	tice, all the samples will be analyzed as requ	ested.		
Client:	Mack Energy	Date Received:	02/21/24 05:30	Work Order ID:	E402182	

Date Logged In: 02/20/24 15:44 Logged In By: Alexa Michaels (575) 390-6397 Phone: 02/22/24 17:00 (1 day TAT) Due Date: Email: Natalie@energystaffingllc.com

Carrier: Courier

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes
2. Does the number of samples per sampling site location match the COC	Yes
3. Were samples dropped off by client or carrier?	Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No
5. Were all samples received within holding time?	Yes
Note: Analysis, such as pH which should be conducted in the field,	
i.e. 15 minute hold time, are not included in this disucssion.	

Sample Turn Around Time (TAT)	
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

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

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

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

Sample Container

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

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

28.	Are samples required to get ser	nt to a subcontract laboratory?	No
-----	---------------------------------	---------------------------------	----

20	Was a subcontract	laboratory enecif	ad by the c	lient and if so who?	
ZY.	was a subcontract	iadoratory specii	iea dy ine c	neni and ii so who?	

NA Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are no
documneted on the COC by client.

Client Instruction

Signature of client authori:	zing changes to the COC or	sample disposition.

envirotech Inc.

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 A

Work Order: E402194

Job Number: 20046-0001

Received: 2/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/23/24

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: 2/23/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E402194

Date Received: 2/22/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/22/2024 5:30:00AM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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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Cen: //3 20/ 1/02

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Sample Summary

Mack Energy	Project Name:	West Mount A	Donoutodi
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/23/24 11:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp. 9-8'	E402194-01A	Soil	02/20/24	02/22/24	Glass Jar, 2 oz.
Sp. 10-4'	E402194-02A	Soil	02/20/24	02/22/24	Glass Jar, 2 oz.
Sp. 11-10'	E402194-03A	Soil	02/20/24	02/22/24	Glass Jar, 2 oz.
Sp. 12-10'	E402194-04A	Soil	02/20/24	02/22/24	Glass Jar, 2 oz.
Sp. 13-16'	E402194-05A	Soil	02/20/24	02/22/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Sp. 9-8' E402194-01

		E402194-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
	resur			•	1 11111 / 201	110005
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2408069
Benzene	ND	0.0250	1	02/22/24	02/22/24	
Ethylbenzene	ND	0.0250	1	02/22/24	02/22/24	
Toluene	ND	0.0250	1	02/22/24	02/22/24	
o-Xylene	ND	0.0250	1	02/22/24	02/22/24	
p,m-Xylene	ND	0.0500	1	02/22/24	02/22/24	
Total Xylenes	ND	0.0250	1	02/22/24	02/22/24	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2408068
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/24	02/23/24	
Surrogate: n-Nonane		105 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2408071
Chloride	84.9	20.0	1	02/22/24	02/22/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Sp. 10-4' E402194-02

	1.102171 02				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2408069
ND	0.0250	1	02/22/24	02/22/24	
ND	0.0250	1	02/22/24	02/22/24	
ND	0.0250	1	02/22/24	02/22/24	
ND	0.0250	1	02/22/24	02/22/24	
ND	0.0500	1	02/22/24	02/22/24	
ND	0.0250	1	02/22/24	02/22/24	
	93.7 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Analyst: RKS		Batch: 2408069	
ND	20.0	1	02/22/24	02/22/24	
	96.0 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2408068
ND	25.0	1	02/22/24	02/23/24	
ND	50.0	1	02/22/24	02/23/24	
	109 %	50-200	02/22/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2408071
216	20.0	1	02/22/24	02/22/24	
	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 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 mg/kg mg/kg MD 20.0 96.0 % mg/kg ND 25.0 ND 50.0 109 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 93.7 % 70-130 mg/kg mg/kg Ana ND 20.0 1 96.0 % 70-130 mg/kg Mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 109 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg Analyst: RKS ND 0.0250 1 02/22/24 ND 0.0250 1 02/22/24 ND 0.0250 1 02/22/24 ND 0.0250 1 02/22/24 ND 0.0500 1 02/22/24 ND 0.0250 1 02/22/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 02/22/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/22/24 ND 50.0 1 02/22/24 ND 50.0 1 02/22/24 ND 50.0 1 02/22/24 ND 50.0 1 02/22/24 mg/kg mg/kg Analyst: NV	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 02/22/24 02/22/24 ND 0.0250 1 02/22/24 02/22/24 ND 0.0250 1 02/22/24 02/22/24 ND 0.0500 1 02/22/24 02/22/24 ND 0.0500 1 02/22/24 02/22/24 ND 0.0250 1 02/22/24 02/22/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 02/22/24 02/22/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/22/24 02/22/24 ND 25.0 1 02/22/24 02/23/24 ND 50.0 1 02/22/24 02/23/24 ND 50.0 1 02/22/24 02/23/24 ND 50.0 1 02/22/24



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Sp. 11-10' E402194-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2408069
Benzene	ND	0.0250	1	02/22/24	02/22/24	
Ethylbenzene	ND	0.0250	1	02/22/24	02/22/24	
Toluene	ND	0.0250	1	02/22/24	02/22/24	
o-Xylene	ND	0.0250	1	02/22/24	02/22/24	
p,m-Xylene	ND	0.0500	1	02/22/24	02/22/24	
Total Xylenes	ND	0.0250	1	02/22/24	02/22/24	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2408068
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/24	02/23/24	
Surrogate: n-Nonane		114 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2408071
Chloride	27.5	20.0	1	02/22/24	02/22/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Sp. 12-10' E402194-04

		E402194-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				1		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2408069
Benzene	ND	0.0250	1	02/22/24	02/22/24	
Ethylbenzene	ND	0.0250	1	02/22/24	02/22/24	
Toluene	ND	0.0250	1	02/22/24	02/22/24	
o-Xylene	ND	0.0250	1	02/22/24	02/22/24	
p,m-Xylene	ND	0.0500	1	02/22/24	02/22/24	
Total Xylenes	ND	0.0250	1	02/22/24	02/22/24	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2408068
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/24	02/23/24	
Surrogate: n-Nonane		111 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2408071
Chloride	247	20.0	1	02/22/24	02/22/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Sp. 13-16' E402194-05

		E-102174-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2408069
Benzene	ND	0.0250	1	02/22/24	02/22/24	
Ethylbenzene	ND	0.0250	1	02/22/24	02/22/24	
Foluene	ND	0.0250	1	02/22/24	02/22/24	
o-Xylene	ND	0.0250	1	02/22/24	02/22/24	
o,m-Xylene	ND	0.0500	1	02/22/24	02/22/24	
Total Xylenes	ND	0.0250	1	02/22/24	02/22/24	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2408068
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/24	02/23/24	
Surrogate: n-Nonane		109 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2408071
Chloride	24.0	20.0	1	02/22/24	02/22/24	



West Mount A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/23/2024 11:51:26AM **Volatile Organics by EPA 8021B** 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 (2408069-BLK1) Prepared: 02/22/24 Analyzed: 02/22/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.57 8.00 94.6 70-130 LCS (2408069-BS1) Prepared: 02/22/24 Analyzed: 02/22/24 3.69 73.8 70-130 5.00 Benzene 0.0250 Ethylbenzene 3.87 0.0250 5.00 77.5 70-130 3.81 0.0250 5.00 76.1 70-130 Toluene o-Xylene 3.84 0.0250 5.00 76.7 70-130 7.84 10.0 78.4 70-130 0.0500 p.m-Xvlene 77.8 11.7 15.0 70-130 Total Xylenes 0.0250 8.00 96.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.68 Matrix Spike (2408069-MS1) Source: E402194-03 Prepared: 02/22/24 Analyzed: 02/22/24 4.53 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.78 0.0250 5.00 95.6 Toluene 4.70 0.0250 5.00 ND 93.9 61-130 4.74 ND 94.8 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.64 0.0500 10.0 ND 96.4 63-131 14.4 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.63 8.00 Matrix Spike Dup (2408069-MSD1) Source: E402194-03 Prepared: 02/22/24 Analyzed: 02/22/24 4.98 0.0250 5.00 ND 99.7 54-133 9.48 20 61-133 9.82 5.27 0.0250 5.00 ND 105 20 Ethylbenzene 61-130 Toluene 5.17 0.0250 5.00 ND 103 9 53 20 5.22 5.00 ND 104 63-131 9.68 20 o-Xylene 0.0250 10.6 10.0 ND 106 63-131 9.56 20 p,m-Xylene 0.0500



15.8

7.59

0.0250

15.0

8.00

ND

106

94.9

63-131

70-130

9.60

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	ı			2/23	3/2024 11:51:26AN
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO		A	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 (2408069-BLK1)							Prepared: 0	2/22/24 Analy	/zed: 02/22/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			
LCS (2408069-BS2)							Prepared: 0	2/22/24 Analy	zed: 02/22/24
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			
Matrix Spike (2408069-MS2)				Source:	E402194-	03	Prepared: 0	2/22/24 Analy	zed: 02/22/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			
Matrix Spike Dup (2408069-MSD2)				Source:	E402194-	03	Prepared: 0	2/22/24 Analy	zed: 02/23/24
Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	13.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:51:26AM

Artesia NM, 88210		Project Manager	r: Na	italie Gladder	1			•	2/23/2024 11:51:20AI
	Nonha	logenated Or	ganics by l	EPA 8015I	D - 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 (2408068-BLK1)							Prepared: 0	2/22/24 Aı	nalyzed: 02/22/24
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.3		50.0		111	50-200			
.CS (2408068-BS1)							Prepared: 0	2/22/24 Aı	nalyzed: 02/22/24
riesel Range Organics (C10-C28)	241	25.0	250		96.5	38-132			
urrogate: n-Nonane	53.0		50.0		106	50-200			
Matrix Spike (2408068-MS1)				Source:	E402193-0	03	Prepared: 0	2/22/24 Aı	nalyzed: 02/22/24
riesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132			
urrogate: n-Nonane	54.2		50.0		108	50-200			
Matrix Spike Dup (2408068-MSD1)				Source:	E402193-0	03	Prepared: 0	2/22/24 Aı	nalyzed: 02/22/24
tiesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.36	20	



Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount A 0046-0001					Reported:
Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden				:	2/23/2024 11:51:26AM
		Anions	by EPA 3	00.0/9056A	L				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 (2408071-BLK1)							Prepared: 0	2/22/24 Ai	nalyzed: 02/22/24
Chloride	ND	20.0							
LCS (2408071-BS1)							Prepared: 0	2/22/24 A	nalyzed: 02/22/24
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2408071-MS1)				Source:	E402192-	02	Prepared: 0	2/22/24 A	nalyzed: 02/22/24
Chloride	285	20.0	250	32.0	101	80-120			
Matrix Spike Dup (2408071-MSD1)				Source:	E402192-	02	Prepared: 0	2/22/24 A	nalyzed: 02/22/24
Chloride	280	20.0	250	32.0	99.2	80-120	1.69	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 A	
ı	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/23/24 11:51

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Received by OCD: 5/13/2025 2:10:05 PM

Client:	Mack 8	nerai	4			Bill To		-		La	ab Us	se On	ly				TA	T	EPA P	rogram
	West Manager:	Mout	14 (A))	Attention: ENERGY Address: 2724 NW		ICES	Lab	WO#	210	14	Job I	Num	oer 0001	1D	2D	3D	Standard	CWA	SDWA
Address:					City, State, Zip			E	10	21				nd Metho	nd he	IV			-	RCRA
City, Stat					Phone: 575-393-90			_				Allaly	315 01	id Weth	1	T	T		-	NCNA
hone:					Email: NATALIE@E		C COM	-vi	ın.					1			1		State	
Email:						ENERGYSTAFFINGL		801	801				0		_	1		NM C		TX
Report d	ue by:				DRITTNETE	ENERGISTATTINGE	ile.Com	O by	o by	802	3260	010	300		ΣZ	×	1 1			
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		верос	ВСООС			Remarks	
	02/20	5	1	Sp. 9.	-8'		l								1					
	02/20	S	1	Sp. 10	- 41		2								J					
	02/20	S	1	Sp. 11.	10.		3								1					
	02/20	5	1	Sp. 12-	- 10'		4								V					
	02/20	5	1	Sp. 13	- 10'		5								/	1				
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Addition	al Instruc	tions:																		
				icity of this sample. may be grounds for le	am aware that tampering with o	or intentionally mislabelli ed by: Sandro	ng the sample	locati	ion,									eived on ice the d °C on subsequent		led or received
5:	ed by: (Sign: Per CZ	_	Date DZ	2/20/24 Time	Received by: (Sign	Quel	2-21-	24	Time	405	5	Rece	eived	on ice:		ab U	ise On	ly		
This	ed by: (Sigh:	and	Date 2	- 21-24 Time	Received by: (Sign	MUSSO	2.21	<i>2</i> u	Time	700		T1			<u>T2</u>			<u>T3</u>		
Relinguish	ed by: (Sign	Hose	Date 2		300 Received by: (Sign	A Hear	2-22-	24	Time		0	AVG	Tem	p°C_	4					
				queous, O - Other _		, , ,	Container			-	-				- or	_				
					unless other arrangements ar										ient ex	pense	. The r	eport for the a	nalysis of the	above
samples is	applicable of	only to tho:	se samples r	eceived by the lab	oratory with this COC. The lia	bility of the laborator	is limited to	the :	amour	nt paid	d for o	n the	report							



Printed: 2/22/2024 9:21:24AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

2/21/24 16:0 2/23/24 17:0	06 00 (1 day TAT)	L	ogged In By:	Alexa Michaels
2/23/24 17:0	00 (1 day TAT)			
Yes				
Yes				
Yes	Carrier: C	Courier		
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31	TOCOMUSCI EST	MA		
	Yes No Yes Yes Yes Yes Yes No NA Yes No NA	Yes No Yes Yes Yes Yes Yes No NA	Yes Carrier: Courier No Yes Yes Project mana documented Yes Yes No NA Yes No NA NA NA NA NA NA NA NA NO NO NA NO NA NO NA NO NO NO NA NO NO NO NA NO	Yes Carrier: Courier No Yes Commen Yes Project manager and tir documented on the CO Yes Yes No NA Yes No NA NO NO NA NA NO NO NA NO NA NO NO NO NA NO NO NO NA NO NO NO NA NO

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 A

Work Order: E402208

Job Number: 20046-0001

Received: 2/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/26/24

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: 2/26/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E402208

Date Received: 2/23/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/23/2024 5:30:00AM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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 A	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/26/24 14:05

Client Sample ID	Lab Sample ID M	atrix	Sampled	Received	Container
Sp. 14-6'	E402208-01A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
Sp. 15-12'	E402208-02A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
Sp. 16-12'	E402208-03A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
Sp. 17-8'	E402208-04A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
Sp. 18-4'	E402208-05A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
Sp. 19-12'	E402208-06A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
Sp. 20-16'	E402208-07A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 14-6' E402208-01

		E402208-01				
Assilia	Result	Reporting Limit	Dilution	. D	A a laa d	Notes
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2408078
Benzene	ND	0.0250	1	02/23/24	02/23/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/23/24	
Toluene	ND	0.0250	1	02/23/24	02/23/24	
o-Xylene	ND	0.0250	1	02/23/24	02/23/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/23/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/23/24	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2408077
Diesel Range Organics (C10-C28)	ND	25.0	1	02/23/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/23/24	02/23/24	
Surrogate: n-Nonane		107 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2408082
Chloride	604	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 15-12' E402208-02

		E402208-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anaiyu	Kesun	Liillit	Dilution	Fiepared	Ananyzed	INOICS
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2408078
Benzene	ND	0.0250	1	02/23/24	02/23/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/23/24	
Toluene	ND	0.0250	1	02/23/24	02/23/24	
o-Xylene	ND	0.0250	1	02/23/24	02/23/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/23/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/23/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2408077
Diesel Range Organics (C10-C28)	ND	25.0	1	02/23/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/23/24	02/23/24	
Surrogate: n-Nonane		111 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2408082
Chloride	329	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 16-12' E402208-03

	E-102200 05				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: EG		Batch: 2408078
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0500	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
	89.4 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Anal	yst: EG		Batch: 2408078
ND	20.0	1	02/23/24	02/23/24	
	98.1 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2408077
ND	25.0	1	02/23/24	02/23/24	
ND	50.0	1	02/23/24	02/23/24	
	115 %	50-200	02/23/24	02/23/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2408082
346	20.0	1	02/23/24	02/23/24	
	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 89.4 % mg/kg MD 20.0 98.1 % mg/kg ND 25.0 ND 50.0 115 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 89.4 % 70-130 mg/kg mg/kg Anal ND 20.0 1 98.1 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 115 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/23/24 ND 0.0250 1 02/23/24 ND 0.0250 1 02/23/24 ND 0.0250 1 02/23/24 ND 0.0500 1 02/23/24 ND 0.0250 1 02/23/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/23/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/23/24 ND 25.0 1 02/23/24 ND 50.0 1 02/23/24 ND 50.0 1 02/23/24 Mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 ND 0.0500 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 89.4 % 70-130 02/23/24 02/23/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/23/24 02/23/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/23/24 02/23/24 ND 25.0 1 02/23/24 02/23/24 ND 50.0 1 02/23/24 02/23/24 ND 50.0 1 02/23/24 02/23/24 ND



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 17-8' E402208-04

Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst: EG			Batch: 2408078
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
ND	0.0500	1	02/23/24	02/23/24	
ND	0.0250	1	02/23/24	02/23/24	
	94.2 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Analyst: EG			Batch: 2408078
ND	20.0	1	02/23/24	02/23/24	
	96.3 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Analyst: KM			Batch: 2408077
ND	25.0	1	02/23/24	02/23/24	
ND	50.0	1	02/23/24	02/23/24	
	117 %	50-200	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	alyst: IY		Batch: 2408082
388	20.0	1	02/23/24	02/23/24	
	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 MD 0.0250 MD 20.0250 94.2 % mg/kg MD 20.0 96.3 % mg/kg ND 25.0 ND 50.0 117 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Ana 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 MD 20.0 1 Mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 117 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/23/24 ND 0.0250 1 02/23/24 ND 0.0250 1 02/23/24 ND 0.0250 1 02/23/24 ND 0.0500 1 02/23/24 ND 0.0250 1 02/23/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/23/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/23/24 ND 25.0 1 02/23/24 ND 50.0 1 02/23/24 ND 50.0 1 02/23/24 ND 50.0 1 02/23/24 Mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 ND 0.0500 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 ND 0.0250 1 02/23/24 02/23/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/23/24 02/23/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/23/24 02/23/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/23/24 02/23/24 ND 50.0 1 02/23/24 02/23/24 ND 50.0 1 02/23/24 02/23/24 ND 50.0 <

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 18-4' E402208-05

		E-102200-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2408078
Benzene	ND	0.0250	1	02/23/24	02/23/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/23/24	
Toluene	ND	0.0250	1	02/23/24	02/23/24	
o-Xylene	ND	0.0250	1	02/23/24	02/23/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/23/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/23/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2408077
Diesel Range Organics (C10-C28)	ND	25.0	1	02/23/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/23/24	02/23/24	
Surrogate: n-Nonane		109 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2408082
Chloride	39.1	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 19-12' E402208-06

		E-102200-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2408078
Benzene	ND	0.0250	1	02/23/24	02/23/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/23/24	
Toluene	ND	0.0250	1	02/23/24	02/23/24	
o-Xylene	ND	0.0250	1	02/23/24	02/23/24	
p,m-Xylene	ND	0.0500	1	02/23/24	02/23/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/23/24	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2408077
Diesel Range Organics (C10-C28)	ND	25.0	1	02/23/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/23/24	02/23/24	
Surrogate: n-Nonane		108 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2408082
Chloride	428	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Sp. 20-16' E402208-07

		E-102200-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2408078
Benzene	ND	0.0250	1	02/23/24	02/23/24	
Ethylbenzene	ND	0.0250	1	02/23/24	02/23/24	
Toluene	ND	0.0250	1	02/23/24	02/23/24	
p-Xylene	ND	0.0250	1	02/23/24	02/23/24	
o,m-Xylene	ND	0.0500	1	02/23/24	02/23/24	
Total Xylenes	ND	0.0250	1	02/23/24	02/23/24	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2408077
Diesel Range Organics (C10-C28)	ND	25.0	1	02/23/24	02/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/23/24	02/23/24	
Surrogate: n-Nonane		109 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2408082
Chloride	101	20.0	1	02/23/24	02/23/24	



QC Summary Data

West Mount A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/26/2024 2:05:08PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2408078-BLK1) Prepared: 02/23/24 Analyzed: 02/23/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.96 8.00 87.0 70-130 LCS (2408078-BS1) Prepared: 02/23/24 Analyzed: 02/23/24 5.12 102 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.12 0.0250 5.00 102 70-130 5.12 0.0250 5.00 102 70-130 Toluene o-Xylene 5.01 0.0250 5.00 100 70-130 10.3 10.0 103 70-130 0.0500 p.m-Xvlene 102 70-130 15.3 15.0 Total Xylenes 0.0250 8.00 88.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.08 Matrix Spike (2408078-MS1) Source: E402208-03 Prepared: 02/23/24 Analyzed: 02/23/24 5.21 0.0250 5.00 ND 54-133 Benzene ND 104 61-133 Ethylbenzene 5.20 0.0250 5.00 Toluene 5.19 0.0250 5.00 ND 104 61-130 ND 102 63-131 5.10 5.00 0.0250 o-Xylene p,m-Xylene 10.5 0.0500 10.0 ND 105 63-131 15.6 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.21 8.00 Matrix Spike Dup (2408078-MSD1) Source: E402208-03 Prepared: 02/23/24 Analyzed: 02/23/24 4.88 0.0250 5.00 ND 97.6 54-133 6.53 20 61-133 6.48 4.88 0.0250 5.00 ND 97.5 20 Ethylbenzene Toluene 4 87 0.0250 5.00 ND 974 61-130 6.48 20 4.78 5.00 ND 95.5 63-131 6.53 20 o-Xylene 0.0250 9.81 10.0 ND 98.1 63-131 6.42 20 p,m-Xylene 0.0500



14.6

7.23

0.0250

15.0

8.00

ND

97.3

90.3

63-131

70-130

6.45

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	1			2/2	26/2024 2:05:08PM		
	Non	Nonhalogenated Organics by EPA 8015D - GRO						Analyst: EG			
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		
Blank (2408078-BLK1)							Prepared: 0	2/23/24 Anal	yzed: 02/23/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.2	70-130					
LCS (2408078-BS2)							Prepared: 0	2/23/24 Anal	yzed: 02/23/24		
Gasoline Range Organics (C6-C10)	59.4	20.0	50.0		119	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130					
Matrix Spike (2408078-MS2)				Source:	E402208-	03	Prepared: 0	2/23/24 Anal	yzed: 02/23/24		
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130					
Matrix Spike Dup (2408078-MSD2)				Source:	E402208-	03	Prepared: 0	2/23/24 Anal	yzed: 02/23/24		
Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	1.47	20			

70-130

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:05:08PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				2/26/2024 2:05:08PN
_	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 (2408077-BLK1)							Prepared: 0	2/23/24 Aı	nalyzed: 02/23/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	59.1		50.0		118	50-200			
LCS (2408077-BS1)							Prepared: 0	2/23/24 Aı	nalyzed: 02/23/24
Diesel Range Organics (C10-C28)	259	25.0	250		103	38-132			
urrogate: n-Nonane	61.6		50.0		123	50-200			
Matrix Spike (2408077-MS1)				Source:	E402208-	03	Prepared: 0	2/23/24 Aı	nalyzed: 02/23/24
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
urrogate: n-Nonane	63.4		50.0		127	50-200			
Matrix Spike Dup (2408077-MSD1)				Source:	E402208-	03	Prepared: 0	2/23/24 A1	nalyzed: 02/23/24
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	14.2	20	
urrogate: n-Nonane	61.2		50.0		122	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount A 0046-0001					Reported:
Artesia NM, 88210		Project Manager:		atalie Gladden					2/26/2024 2:05:08PM
		Anions	by EPA 3	600.0/9056A					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 (2408082-BLK1)							Prepared: 0	2/23/24 A	nalyzed: 02/23/24
Chloride	ND	20.0							
LCS (2408082-BS1)							Prepared: 0	2/23/24 A	nalyzed: 02/23/24
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2408082-MS1)				Source: I	E402208-	03	Prepared: 0	2/23/24 A	nalyzed: 02/23/24
Chloride	597	20.0	250	346	100	80-120			
Matrix Spike Dup (2408082-MSD1)				Source: I	E402208-	03	Prepared: 0	2/23/24 A	nalyzed: 02/23/24
Chloride	596	20.0	250	346	100	80-120	0.105	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 A	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
١	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/26/24 14:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

71	Carried Marine		
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	1 CHILL	Oi	Custody

Chain of Custo	dγ						Page/	of _ i
O PENIC CENTRAL	341	Lab Use Only	No.		TA	AT .	EPA P	rogram
FFING SERVICES	Lab WO#	- Job Number	10	120	301	Standard	CIALA	LCDIMA

Client:	West	neval	101)				Bill To		136		Lá	ab Us	e Or	nly				T	AT		FPA D	rogram
Project Address	Manager:	~100N.4	(FI)		Addre	ss: 2724 NW	NW COUNTY RD Lab WO# 100 NM 98340				ber 0-000	1D	2D		1.00	andard	CWA	SDWA				
City, Sta Phone: Email:	te, Zip				City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLI BRITTNEY@ENERGYSTAFFINGL				by 8015	8015			Analy	ysis a	nd Metho	od	I			01/6	State	RCRA
Report o	ue by:		T			BRITINETWE	NEKGYSTAFFINGI	J.G.COM	30 by	6	8021	8260	5010	300.0		ΣN	¥			NM CO	UT AZ	TX
Sampled	Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO	GRO/DRO	втех Бу	VOC by 8260	Metals 6010	Chloride		ВСВОС	BGDOC			VI	Remarks	
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Addition	al Instruct	ions:				- idea																
, (field samp date or time	ler), attest to of collection i	he validity a	and authention	city of this sample. I a	am aware that t	ampering with or i	ntentionally mislabellin	g the sample	locatio	7			Sample	s requir	ing thermal p	reserva above	tion mu	st be rec	eived on	ice the day the	y are sample	d or received
Sur	d by: (Signa WA P d by: (Signa	erez/	Date	21/24 Time	Rei	ceived by: (Signal	ture) By L	Date 2-22-3	4	Time	44		N-	100	on ice:	L	ab Us	se Onl		osequent days.		
	d by: (Signa		Date	Time	- C	eived by: (Signal Language Company Seived by: (Signal	ture)	2.22. Date	24	Time		1	Г1			<u>T2</u>			_ 1	3		77
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Vote: Samp	les are disca	ded 30 da	vs after res	ults are reported in	place other as	//		Container	Type:	g - gl	ass, p	- po	y/pla	stic,	ag - amb	er glas	55, V -	VOA				

rted 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: 2/23/2024 8:39:09AM

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. E402208 Mack Energy Date Received: 02/23/24 05:30 Work Order ID: Client: Logged In By: Alexa Michaels Phone: (575) 390-6397 Date Logged In: 02/22/24 18:08 Due Date: 02/26/24 17:00 (1 day TAT) Email: Natalie@energystaffingllc.com Chain of Custody (COC) Yes 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Courier No 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Yes Note: Analysis, such as pH which should be conducted in the field, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) Project manager and time sampled are not 6. Did the COC indicate standard TAT, or Expedited TAT? Yes documented on the COC by client. Sample Cooler Yes 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA 24. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.c., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA **Client Instruction**

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

envirotech Inc.

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 A

Work Order: E402223

Job Number: 20046-0001

Received: 2/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/27/24

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: 2/27/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E402223

Date Received: 2/24/2024 12:30:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/24/2024 12:30:00PM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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 A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/27/24 14:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW- 1 -4'	E402223-01A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW2 -4'	E402223-02A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW3 -2'	E402223-03A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW4 -4'	E402223-04A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW5 -4'	E402223-05A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW6 -4'	E402223-06A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW7 -4'	E402223-07A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW8 -2'	E402223-08A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW9 -2'	E402223-09A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW10 -2'	E402223-10A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW11 -2'	E402223-11A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW12 -2'	E402223-12A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW13 -2'	E402223-13A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW14 -2'	E402223-14A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW15 -2'	E402223-15A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW16 -2'	E402223-16A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.
SW17 -2'	E402223-17A	Soil	02/22/24	02/24/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW- 1 -4' E402223-01

		E402223-01				
Anglista	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	Frepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/26/24	
Surrogate: n-Nonane		91.5 %	50-200	02/26/24	02/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: IY		Batch: 2409001
Chloride	331	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW2 -4' E402223-02

	E-102225-02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0500	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
	97.2 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
ND	20.0	1	02/26/24	02/26/24	
	96.6 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2409004
ND	25.0	1	02/26/24	02/26/24	
ND	50.0	1	02/26/24	02/26/24	
	93.1 %	50-200	02/26/24	02/26/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2409001
212	20.0	1	02/26/24	02/26/24	
	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 MD 20.0250 mg/kg mg/kg ND 20.0 96.6 % mg/kg ND 25.0 ND 50.0 93.1 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.2 % 70-130 mg/kg mg/kg Ana ND 20.0 1 96.6 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 93.1 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0500 1 02/26/24 ND 0.0250 1 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 ND 50.0 1 02/26/2	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 02/26/24 ND 0.0500 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 MD 0.0250 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 02/26/24 ND 25.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW3 -2'

		E402223-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/26/24	
Surrogate: n-Nonane		96.2 %	50-200	02/26/24	02/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2409001
Chloride	464	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW4 -4' E402223-04

		E402225-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/26/24	
Surrogate: n-Nonane		96.2 %	50-200	02/26/24	02/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2409001
Chloride	212	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW5 -4' E402223-05

	L-102220 03				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0500	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
	95.3 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
ND	20.0	1	02/26/24	02/26/24	
	95.3 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2409004
ND	25.0	1	02/26/24	02/26/24	
ND	50.0	1	02/26/24	02/26/24	
	102 %	50-200	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2409001
413	20.0	1	02/26/24	02/26/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting 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 MD 20.0250 95.3 % mg/kg MD 20.0 95.3 % mg/kg ND 25.0 ND 50.0 102 % 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 mg/kg mg/kg Anal ND 20.0 1 95.3 % 70-130 mg/kg mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 102 % 50-200 mg/kg mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Analyst: EG ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0500 1 02/26/24 ND 0.0250 1 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 ND 50.0 1 02/26/24 ND 50.0 1 02/26/24 ND 50.0 1 02/26/24 ND 50.0 1 02/26/24 mg/kg mg/kg Analyst: NV	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0500 1 02/26/24 02/26/24 ND 0.0500 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 MD 0.0250 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW6 -4' E402223-06

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0500	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
	93.2 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
ND	20.0	1	02/26/24	02/26/24	
	97.0 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2409004
ND	25.0	1	02/26/24	02/26/24	
ND	50.0	1	02/26/24	02/26/24	
	100 %	50-200	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2409001
212	20.0	1	02/26/24	02/26/24	
	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 MD 0.0250 MD 0.0250 MD 20.0 97.0 % mg/kg MD 25.0 ND 50.0 100 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 93.2 % 70-130 mg/kg mg/kg Anal ND 20.0 1 97.0 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 100 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0500 1 02/26/24 ND 0.0250 1 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 ND 25.0 1 02/26/24 ND 50.0 1 02/26/24 ND 50.0 1 02/26/24 ND 50.0 1 02/26/24 mg/kg mg/kg Analyst: NV	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0500 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24 02/26/24 ND 50.0 1 02/26/24 02/26/24 ND 50.0 <



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW7 -4' E402223-07

		E402223-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/26/24	
Surrogate: n-Nonane		108 %	50-200	02/26/24	02/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2409001
Chloride	537	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW8 -2'

E402223-	n	O
P.4U.Z.Z.Z.3-	41	М

		2102220 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		st: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/26/24	
Surrogate: n-Nonane		95.8 %	50-200	02/26/24	02/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2409001
Chloride	310	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW9 -2'

E402223-09						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		98.0 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2409001
Chloride	235	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW10 -2' E402223-10

		£402223-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilution	Frepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		91.5 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2409001
Chloride	137	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW11 -2' E402223-11

		E402223-11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		98.7 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2409001
Chloride	243	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW12 -2' E402223-12

		E402223-12				
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	Ana	lyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		102 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2409001
Chloride	424	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW13 -2' E402223-13

		E402223-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
o,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		97.6 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2409001
Chloride	139	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW14 -2' E402223-14

		E402225-14				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		97.3 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: IY		Batch: 2409001
Chloride	160	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW15 -2' E402223-15

		E402223-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		97.2 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2409001
Chloride	54.6	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW16 -2' E402223-16

		E402223-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
Benzene	ND	0.0250	1	02/26/24	02/26/24	
Ethylbenzene	ND	0.0250	1	02/26/24	02/26/24	
Toluene	ND	0.0250	1	02/26/24	02/26/24	
o-Xylene	ND	0.0250	1	02/26/24	02/26/24	
p,m-Xylene	ND	0.0500	1	02/26/24	02/26/24	
Total Xylenes	ND	0.0250	1	02/26/24	02/26/24	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2409002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/24	02/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	02/26/24	02/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2409004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/24	02/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/24	02/27/24	
Surrogate: n-Nonane		95.9 %	50-200	02/26/24	02/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2409001
Chloride	121	20.0	1	02/26/24	02/26/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

SW17 -2' E402223-17

	E402223-17				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: EG		Batch: 2409002
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
ND	0.0500	1	02/26/24	02/26/24	
ND	0.0250	1	02/26/24	02/26/24	
	95.0 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	lyst: EG		Batch: 2409002
ND	20.0	1	02/26/24	02/26/24	
	96.6 %	70-130	02/26/24	02/26/24	
mg/kg	mg/kg	Anal	lyst: NV		Batch: 2409004
ND	25.0	1	02/26/24	02/27/24	
ND	50.0	1	02/26/24	02/27/24	
	95.9 %	50-200	02/26/24	02/27/24	
mg/kg	mg/kg	Anal	lyst: IY		Batch: 2409001
279	20.0	1	02/26/24	02/26/24	
	mg/kg 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 mg/kg mg/kg MB/kg mg/kg MB/kg mg/kg ND 20.0 96.6 % mg/kg ND 25.0 ND 50.0 95.9 % 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 0.0250 1 ND 0.0500 1 ND 0.0250 1 mg/kg mg/kg Anal ND 20.0 1 96.6 % 70-130 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 95.9 % 50-200 mg/kg mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0250 1 02/26/24 ND 0.0500 1 02/26/24 ND 0.0250 1 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 ND 50.0 0 0	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 ND 0.0500 1 02/26/24 02/26/24 ND 0.0500 1 02/26/24 02/26/24 ND 0.0250 1 02/26/24 02/26/24 MD 0.0250 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/26/24 02/26/24 mg/kg mg/kg Analyst: NV ND 25.0 1 02/26/24 02/26/24 ND 25.0 1 02/26/24 02/27/24 ND 50.0 1 02/26/24 02/27/24 ND 50.0 1 02/26/24



QC Summary Data

West Mount A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/27/2024 2:04:30PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2409002-BLK1) Prepared: 02/26/24 Analyzed: 02/26/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.45 8.00 93.1 70-130 LCS (2409002-BS1) Prepared: 02/26/24 Analyzed: 02/26/24 4.60 91.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.59 0.0250 5.00 91.9 70-130 4.58 0.0250 5.00 91.6 70-130 Toluene 4.52 o-Xylene 0.0250 5.00 90.4 70-130 9.27 10.0 92.7 70-130 0.0500 p.m-Xvlene 91.9 13.8 15.0 70-130 Total Xylenes 0.0250 8.00 93.6 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.49 Matrix Spike (2409002-MS1) Source: E402223-06 Prepared: 02/26/24 Analyzed: 02/26/24 4.83 0.0250 5.00 ND 96.7 54-133 Benzene 61-133 Ethylbenzene 4.83 0.0250 5.00 ND 96.7 Toluene 4.82 0.0250 5.00 ND 96.4 61-130 4.77 ND 95.4 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.75 0.0500 10.0 ND 97.5 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.50 8.00 Matrix Spike Dup (2409002-MSD1) Source: E402223-06 Prepared: 02/26/24 Analyzed: 02/26/24 4.60 0.0250 5.00 ND 91.9 54-133 5.06 20 61-133 5.04 4.59 0.0250 5.00 ND 91.9 20 Ethylbenzene Toluene 4 59 0.0250 5.00 ND 917 61-130 5.01 20 4.53 5.00 ND 90.6 63-131 5.12 20 o-Xylene 0.0250 9.27 10.0 ND 92.7 63-131 5.05 20 p,m-Xylene 0.0500 Total Xylenes 13.8 0.0250 15.0 ND 92.0 63-131 5.07 20

8.00

94.3

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.54

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			2/2	27/2024 2:04:30PM
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2409002-BLK1)							Prepared: 0	2/26/24 Anal	yzed: 02/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			
LCS (2409002-BS2)							Prepared: 0	2/26/24 Anal	yzed: 02/26/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			
Matrix Spike (2409002-MS2)				Source:	E402223-	06	Prepared: 0	2/26/24 Anal	yzed: 02/26/24
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			
Matrix Spike Dup (2409002-MSD2)				Source:	E402223-	06	Prepared: 0	2/26/24 Anal	yzed: 02/26/24
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130	5.40	20	

8.00

7.92

99.0

70-130

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/27/2024 2:04:30PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1				2/27/2024 2:04:30PM
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: NV								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 (2409004-BLK1)							Prepared: 0	2/26/24 Ai	nalyzed: 02/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.6		50.0		97.3	50-200			
LCS (2409004-BS1)							Prepared: 0	2/26/24 A	nalyzed: 02/26/24
Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			
Matrix Spike (2409004-MS1)				Source:	E402223-0	08	Prepared: 0	2/26/24 A	nalyzed: 02/26/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			
Matrix Spike Dup (2409004-MSD1)				Source:	E402223-0	08	Prepared: 0	2/26/24 A	nalyzed: 02/26/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	1.11	20	
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			



QC Summary Data

Mack Energy		Project Name:		est Mount A 0046-0001					Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden					2/27/2024 2:04:30PM
		Anions	by EPA 3	600.0/9056A	<u>.</u>				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 (2409001-BLK1)							Prepared: 02	2/26/24 A	nalyzed: 02/26/24
Chloride	ND	20.0							
LCS (2409001-BS1)							Prepared: 02	2/26/24 A	nalyzed: 02/26/24
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2409001-MS1)				Source: 1	E 402223- ()4	Prepared: 02	2/26/24 A	nalyzed: 02/26/24
Chloride	475	20.0	250	212	105	80-120			
Matrix Spike Dup (2409001-MSD1)				Source: 1	E 402223- ()4	Prepared: 02	2/26/24 A	nalyzed: 02/26/24
Chloride	459	20.0	250	212	98.8	80-120	3.37	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 A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/27/24 14:04

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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Chain of Custody

Received by OCD: 5/13/2025 2:10:05 PM

Client: 1	1ack s	NEVO				Bill To				La	ab Us	se Onl	V			_	TA	T	EPA P	ogram
Project:	West	Mour	7 (A		E	ttention: ENERGY STAFFING SERV	/ICES	Lab	Lab WO# Job Nu E 40 2223 2000			lumb	er	1D	2D	3D	Standard	tandard CWA		
Project N	Manager:					ddress: 2724 NW COUNTY RD		E	102	152						V		The of Colors		RCRA
Address:					2	ity, State, Zip HOBBS, NM 88240						Analys	sis an	d Metho	d			3.51		KCKA
City, Stat	e, Zip				C	hone: 575-393-9048									1				Chaha	
Phone:					E	mail: NATALIE@ENERGYSTAFFINGL	LC.COM	115	015				1					and co	State	TV
Email:						BRITTNEY@ENERGYSTAFFING	LLC.COM)y 8(98 %	21	00	0	0.00		NW	_		NIVIC	UT AZ	IX
Report d	ue by:				14			80	RO	y 80	/826	601	Je 3(X		1		
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		ВСООС	BGDOC			Remarks	
	02/22	S	Ì	SW-1-	4'		1								V					
	UZ/ZZ	S	1	Sw 2-			2								/					
	02/22	5	1	SW 3-			3								V					
	02/22	5	l	SW 4-			4								V					
	02/22	5		SW 5-			5								V					
	02/22	5	1	SWLe-			6								V					
	02/22	5		SW7-	4'		1								V					
	02/22	5		SM18-	2		8								V	1				
	02/22	5		SW 9-	_		9								V	1				
	02/22	5	1	SWII			10								1	1				
Addition	nal Instruc	tions:																		
				ticity of this sample		rare that tampering with or intentionally mislabe	elling the samp	le loca	tion,			Sampl	les requ d in ice	at an avg te	l preserv mp above	ation m	nust be re less than	eceived on ice the of 6°C on subsequen	lay they are samp t days.	led or received
	ed by: (Sign	/	Date	2 _ 1 , Time	_	Received by: (Signature)	2-23		Tim	2	18	Rec	eive	d on ice	-	Lab (Jse Oi N	nly		
	led by: (Sign	afure)	Dat	-23-24 Tim	154	Received by: (Signature)	Date 2.2	3.2	d Tim	170	0	T1						<u>T3</u>		
Relinquish	ed by: (Sign	HQQ.	Dat	.23.74 Tim	Wo	Received by: (Signature)	2 24	/21	Tim	lZ3	30	AV	G Tei	mp °C_	4			1 7		
Sample Ma	trix: S - Soil S	d - Solid Se	- Sludge A -	Aqueous O - Other		(, ,	Contain	er Ty	pe: g	- glas	s, p -	poly/p	lasti	c, ag - an	ber gl	ass, v	- VOA			
Note: San	ples are dis	carded 30	days after r	esults are reporte	d unles	other arrangements are made. Hazardou	is samples wi	ill be	return	ed to	client	or disp	osed	of at the o	lient ex	pens	e. The	report for the	analysis of the	above
samples is	applicable	only to tho	se samples	received by the la	borato	y with this COC. The liability of the laborate	ory is limited	to the	e amo	unt pa	aid fo	r on the	repo	rt.						



Project Information

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	: 6/10/2025 2:07:4
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Chain of Custody

Page 2 of 2

Tient I	Jacv. 9	Neso	iU	T	-1	Bill To	1			La	ab Us	se Onl	y	- L			TA		EPA P	rogram
Project:	1ack & West	MOUN	FIA			on: ENERGY STAFFING			WO#	#	13	Job N	umb		1D	2D	3D	Standard	CWA	SDWA
	/lanager:	1				s: 2724 NW COUNTY I		EL	102	22	3	200	UPK	10001		1				
Address:					City, St	ate, Zip HOBBS, NM	88240					Analys	is an	d Metho	i			1000		RCRA
City, Stat					Phone:	575-393-9048												17 . 18 18 18		
Phone:					Email:	NATALIE@ENERGYSTAF	FINGLLC.COM	315)15							1		111 1 22	State	I Total
Email:						BRITTNEY@ENERGYSTA	FFINGLLC.COM	oy 8(3y 8(121	99	0	0.00		NM	-		NM CO	UT AZ	1X
Report o	ue by:						-	- ORO	NO I	08 kg	y 82	601	de 3(1 1	100	¥			<u> </u>	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос			Remarks	
	02/22	5	1	SW 11-	2		11								V					
	02/22	5	1	SW 12-			12								1					
	02/22	5	ι	SW 13	- 2'		13)							V	1				
	02/22	5		SW 14	- 2'		14								/					
	02/22	S	(SW 15	5-2'		15								1					
	02/22	5	1	SN 14			16)							1	_				
	02/22	5	1	SW 17			17		and the second						1	_				
									_	-	1				-	-				
Additio	nal Instru	ctions:																		
200				nticity of this sample.		tampering with or intentionally	y mislabelling the sam	ple loca	ation,									eived on ice the day °C on subsequent d		led or receive
	hed by: (Sign	nature) /	Dat	e / / Time	Re	eceived by: (Signature)	Date 2	3-24	Tim	121	8	Rece	eived	d on ice:		Lab L	lse On V	ly		
Relinquis	hed by: (Sign		Dat	1-27-24 V	545 R	eceived by: (Signature)	Date 2.2	23.2	4 Tim	170	α	T1			T2			<u>T3</u>		
Relinquis	hed by: (Sigr	nature)	Dat	e Time	Uoo	eceived by: (Signature)	1 Date 2/2	1/20	Tim	123	30	AVG	Ten	np °C	4			118		
Sample M	atrix: S - Soil. S	Sd - Solid, Se	- Studge A-	Aqueous Q - Other		-3-54004	Contair	ner Ty	pe: g	- glas	s, p -	poly/p	lastic	, ag - aml	oer gla	ass, v	- VOA			
Note: Sa	noles are dis	scarded 30	days after i	results are reported	unless other	arrangements are made. H	azardous samples v	vill be i	return	ed to	client	or dispo	sed o	of at the cl	ent ex	pense	. The r	eport for the ar	nalysis of the	above
samples	is applicable	only to the	ose samples	received by the lat	oratory with t	this COC. The liability of the	laboratory is limited	d to the	e amo	unt pa	id for	on the	repor	t.						
-		-										-					•			



Printed: 2/26/2024 8:18:14AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

Client: Mack Energy Date Received:	02/24/24 1	2:30	Work Order ID:	E402223
Phone: (575) 390-6397 Date Logged In:	: 02/24/24 1	3:20	Logged In By:	Alexa Michaels
mail: Natalie@energystaffingllc.com Due Date:	02/27/24	7:00 (1 day TAT)		
Chain of Custody (COC)				
. Does the sample ID match the COC?	Yes			
. Does the number of samples per sampling site location match the COC	Yes			
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier		
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	<u> </u>		
 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		Commen	ts/Resolution
Sample Turn Around Time (TAT)				
5. Did the COC indicate standard TAT, or Expedited TAT?	Yes			
Sample Cooler	100	1		
7. Was a sample cooler received?	Yes			
B. If yes, was cooler received in good condition?	Yes			
D. Was the sample(s) received intact, i.e., not broken?	Yes			
10. Were custody/security seals present?	No			
11. If yes, were custody/security seals intact?	NA			
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes			
3. If no visible ice, record the temperature. Actual sample temperature:	<u>4°C</u>			
Sample Container				
4. Are aqueous VOC samples present?	No			
5. Are VOC samples collected in VOA Vials?	NA			
6. Is the head space less than 6-8 mm (pea sized or less)?	NA			
7. Was a trip blank (TB) included for VOC analyses?	NA	Ì		
8. Are non-VOC samples collected in the correct containers?	Yes			
9. Is the appropriate volume/weight or number of sample containers collected?	Yes			
Field Label				
20. Were field sample labels filled out with the minimum information:				
Sample ID?	Yes			
Date/Time Collected?	Yes			
Collectors name?	Yes			
Sample Preservation				
21. Does the COC or field labels indicate the samples were preserved?	No			
22. Are sample(s) correctly preserved?	NA			
24. Is lab filteration required and/or requested for dissolved metals?	No			
Multiphase Sample Matrix				
26. Does the sample have more than one phase, i.e., multiphase?	No			
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA			
Subcontract Laboratory				
28. Are samples required to get sent to a subcontract laboratory?	No			
29. Was a subcontract laboratory specified by the client and if so who?		Subcontract Lab: NA		
	14/1	Successifiant Day, 1474		
Client Instruction				
Client Instruction		Suocontract Lab: NA		
		-	Date	enviroted

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 A

Work Order: E404019

Job Number: 20046-0001

Received: 4/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/5/24

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: 4/5/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E404019

Date Received: 4/4/2024 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/4/2024 7:00:00AM, under the Project Name: West Mount A.

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

ljarboe@envirotech-inc.com

Michelle Golzales

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

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 A	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/05/24 14:26

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
Sp. 14-10'	E404019-01A Soil	04/02/24	04/04/24	Glass Jar, 2 oz.



Sample Data

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 2:26:05PM

Sp. 14-10' E404019-01

		E404019-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2414050
Benzene	ND	0.0250	1	04/04/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/05/24	
Toluene	ND	0.0250	1	04/04/24	04/05/24	
o-Xylene	ND	0.0250	1	04/04/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	04/04/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2414050
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	04/04/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane		109 %	50-200	04/04/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2414059
Chloride	111	20.0	1	04/04/24	04/04/24	



QC Summary Data

West Mount A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 4/5/2024 2:26:05PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2414050-BLK1) Prepared: 04/04/24 Analyzed: 04/05/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.67 8.00 95.8 70-130 LCS (2414050-BS1) Prepared: 04/04/24 Analyzed: 04/05/24 5.33 107 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.17 0.0250 5.00 103 70-130 5.32 0.0250 5.00 106 70-130 Toluene o-Xylene 5.26 0.0250 5.00 105 70-130 10.6 10.0 106 70-130 0.0500 p.m-Xvlene 105 70-130 15.8 15.0 Total Xylenes 0.0250 8.00 96.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.71 Matrix Spike (2414050-MS1) Source: E404020-02 Prepared: 04/04/24 Analyzed: 04/05/24 5.02 0.0250 5.00 ND 54-133 Benzene ND 97.1 61-133 Ethylbenzene 4.85 0.0250 5.00 Toluene 5.00 0.0250 5.00 ND 100 61-130 4.94 ND 98.7 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.92 0.0500 10.0 ND 99.2 63-131 14.9 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.78 8.00 Matrix Spike Dup (2414050-MSD1) Source: E404020-02 Prepared: 04/04/24 Analyzed: 04/05/24 5.03 0.0250 5.00 ND 54-133 0.162 20 61-133 0.508 4.88 0.0250 5.00 ND 97.6 20 Ethylbenzene Toluene 5.02 0.0250 5.00 ND 100 61-130 0.319 20 4.97 5.00 ND 99.3 63-131 0.602 20 o-Xylene 0.0250 0.530 9.98 10.0 ND 99.8 63-131 20 p,m-Xylene 0.0500



14.9

7.72

0.0250

15.0

8.00

ND

99.6

96.5

63-131

70-130

0.554

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 2:26:05PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			4/	5/2024 2:26:05PM		
	Nor	halogenated	Organics	by EPA 80	15D - G	RO		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 (2414050-BLK1)									yzed: 04/05/24		
Gasoline Range Organics (C6-C10)	ND	20.0					1		<u>-</u>		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130					
LCS (2414050-BS2)							Prepared: 0	4/04/24 Anal	yzed: 04/05/24		
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130					
Matrix Spike (2414050-MS2)				Source:	E404020-	02	Prepared: 0	4/04/24 Anal	yzed: 04/05/24		
Gasoline Range Organics (C6-C10)	35.3	20.0	50.0	ND	70.7	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130					
Matrix Spike Dup (2414050-MSD2)				Source:	E404020-	02	Prepared: 0	4/04/24 Anal	yzed: 04/05/24		
Gasoline Range Organics (C6-C10)	36.9	20.0	50.0	ND	73.9	70-130	4.42	20			

8.00

7.36

92.1

70-130

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 2:26:05PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1				4/3/2024 2:20:03PW
	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 (2414039-BLK1)							Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	63.1		50.0		126	50-200			
LCS (2414039-BS1)							Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Diesel Range Organics (C10-C28)	309	25.0	250		124	38-132			
urrogate: n-Nonane	61.8		50.0		124	50-200			
Matrix Spike (2414039-MS1)				Source:	E404014-0	03	Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Diesel Range Organics (C10-C28)	322	25.0	250	ND	129	38-132			
urrogate: n-Nonane	64.3		50.0		129	50-200			
Matrix Spike Dup (2414039-MSD1)				Source:	E404014-0	03	Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Diesel Range Organics (C10-C28)	323	25.0	250	ND	129	38-132	0.439	20	
urrogate: n-Nonane	64.1		50.0		128	50-200			



QC Summary Data

Mack Energy		Project Name:		est Mount A					Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladden	l				4/5/2024 2:26:05PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	\				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 (2414059-BLK1)							Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Chloride	ND	20.0							
LCS (2414059-BS1)							Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2414059-MS1)				Source:	E404018-	08	Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Chloride	382	100	250	146	94.6	80-120			M1
Matrix Spike Dup (2414059-MSD1)				Source:	E404018-	08	Prepared: 0	4/04/24 A	nalyzed: 04/04/24
Chloride	400	100	250	146	102	80-120	4.53	20	M1

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 A	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	04/05/24 14:26

M1 Matrix spike recovery was above acceptance limits. 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.



Project Information

Chain of Custody	Page _

Client: 1	1ack E	MPVAU			Tree I	Bill To		120	541	La	ab Us	e On	V	1			TA	T		EPA P	rogram
Project: Project N	West lanager:		A		Ad	ention: ENERGY STAFFING SER dress: 2724 NW COUNTY RD y, State, Zip HOBBS, NM 88240		E C	WO!		9	Job N 200	Num)46	ber -0001 nd Metho	1D	2D	3D	Stan	dard	CWA	SDWA RCRA
Address: City, Stat Phone: Email: Report d					Ph	one: 575-393-9048 ail: NATALIE@ENERGYSTAFFING BRITTNEY@ENERGYSTAFFING	LC.COM	DRO/ORO by 8015	GRO/DRO by 8015	y 8021			Chloride 300.0	id Metric	NM	ΤX		N	M/CO	State UT AZ	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	DRO/O	GRO/D	BTEX by 8021	VOC by 8260	Metals 6010	Chlorid		верос	верос				Remarks	
	04/02	S	Ì	Sp. 14	- 10,		1								1						
									-												
										-					-						
Addition	al Instru	ctions:					16.2	54	1		_						1				
				ticity of this sampl may be grounds fo		e that tampering with or intentionally mislab . Sampled by:	elling the san	iple loca	ition,					airing therma	np above	0 but l	ess than	6 °C on sul			led or received
S.P.	ed by: Sign		Date Date	10224	ne	Received by: (Signature) Mighth Child Received by: (Signature)	Date Date		Tim	25	-	Rec	eive	d on ice:		Y I	ise Or	ıly			
Relinquisi	led by: (Sign	cert	Date	3-24	1552 11/10	Received by: (Signature)	Date U/L	3.29	Tim		80 D	T1	Ter	mp °C_	<u>T2</u> {	Ago		_ 1	3		
Sample Ma		id - Solid, Se	- Sludge, A -	Aqueous, O - Othe	V400		Contai	ner Ty						, ag - am		ass, v	- VOA				
Note: San	ples are dis	carded 30	days after r	esults are report	ed unless o	ther arrangements are made. Hazardo vith this COC. The liability of the laborat	ıs samples v	vill be r	eturn	ed to d	lient o	or dispo	osed	of at the cl	ient ex	pense	. The	report f	or the an	alysis of the	above



Printed: 4/4/2024 8:46:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

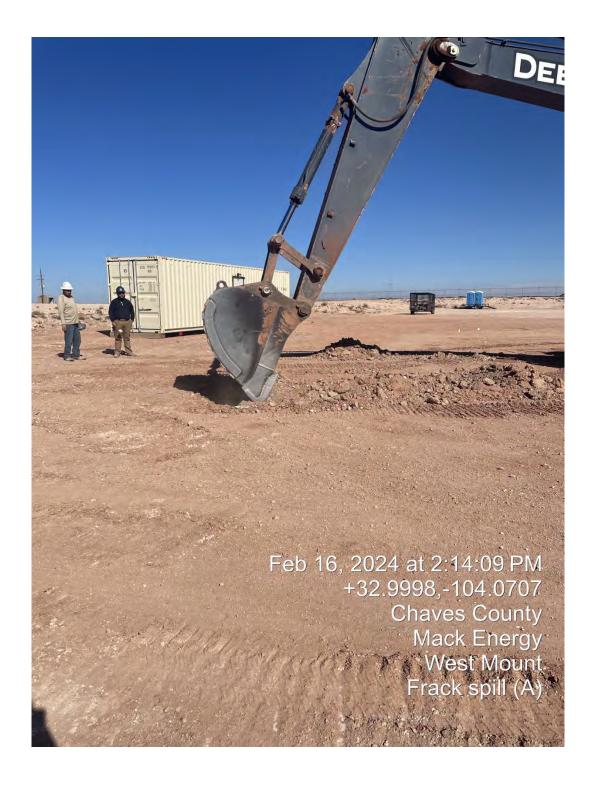
Instructions: Please take note of any NO checkmarks.

Client:	Mack Energy	Date Received:	04/04/24 0	7:00	Work Order ID:	E404019
Phone:	(575) 390-6397	Date Logged In:	04/03/24 1	6:39	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/05/24 1	7:00 (I day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	number of samples per sampling site location mate	h the COC	Yes			
B. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
I. Was the	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No			
5. Were a	Il 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	,	Comme	nts/Resolution
Sample T	urn Around Time (TAT)				Drainet Manager and	Fime compled not
5. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project Manager and	
Sample (documented on the CO	OC by client
	sample cooler received?		Yes			
ያ. If yes,	was cooler received in good condition?		Yes			
). Was the	e sample(s) received intact, i.e., not broken?		Yes			
0. Were	custody/security seals present?		No			
ll. If yes	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 visible ice, record the temperature. Actual sample to	received w/i 15	Yes			
	Container_					
	queous VOC samples present?		No			•
	OC samples collected in VOA Vials?		NA			
6. 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 containe	rs collected?	Yes			
Field Lai	<u>oel</u>					
20. Were	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	•		
	ollectors name?		Yes			
	<u>reservation</u> the COC or field labels indicate the samples were pre	served?	No			
	imple(s) correctly preserved?	scived:	NA			
	filteration required and/or requested for dissolved me	tals?	No			
			140			
	<u>se Sample Matrix</u> the sample have more than one phase, i.e., multiphase	.9	Ma			
	does the COC specify which phase(s) is to be analyz		No			
•	• • • •	cu:	NA			
_	act Laboratory					
	amples required to get sent to a subcontract laboratory subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	o: NA	
	struction					

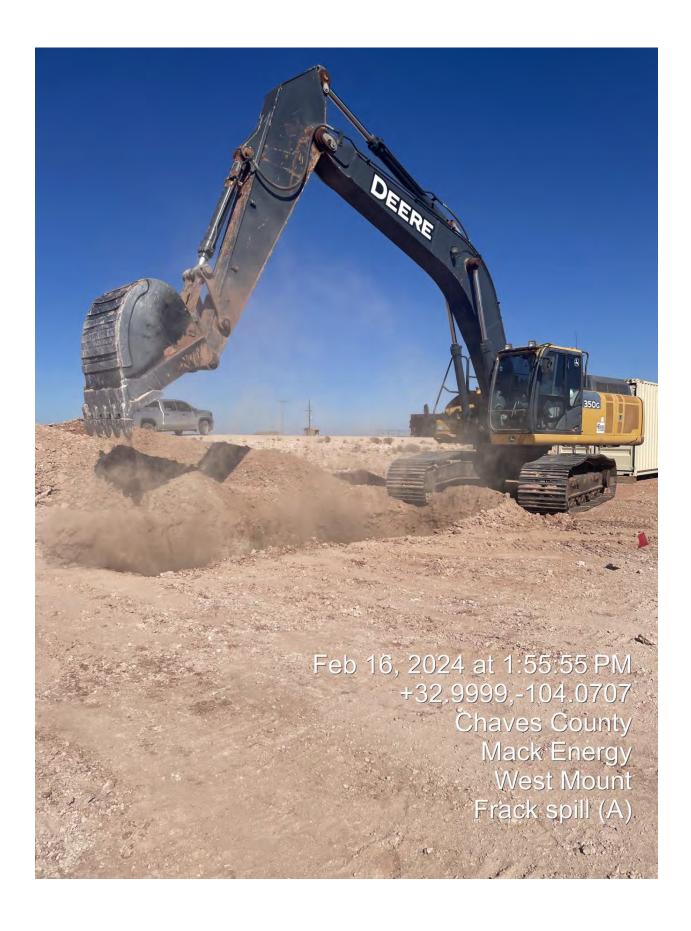
MACK ENERGY: WEST MOUNT SPILL A DELINEATION SITE PHOTOS

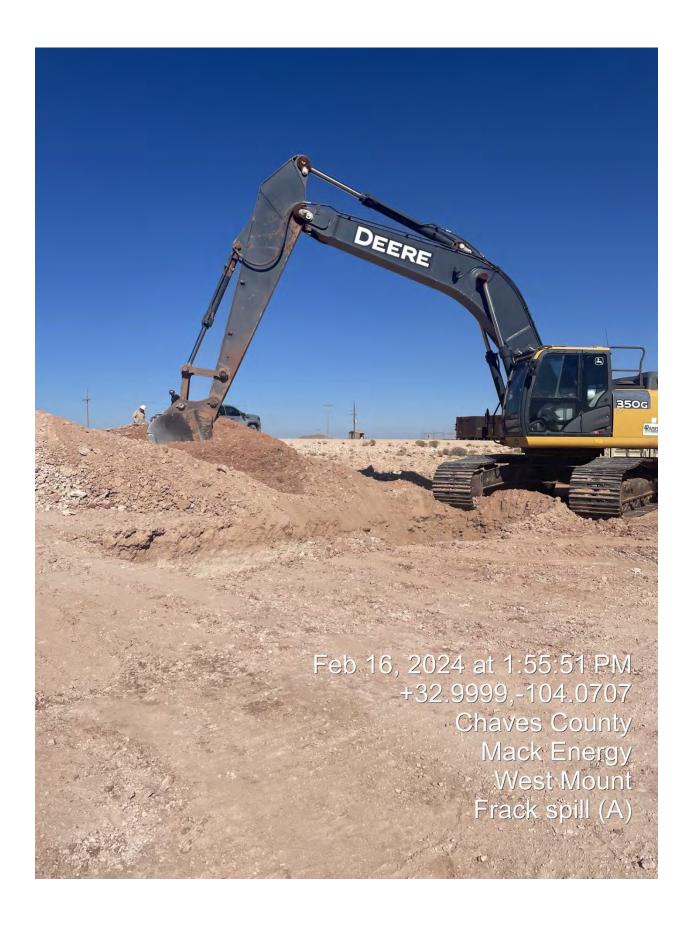


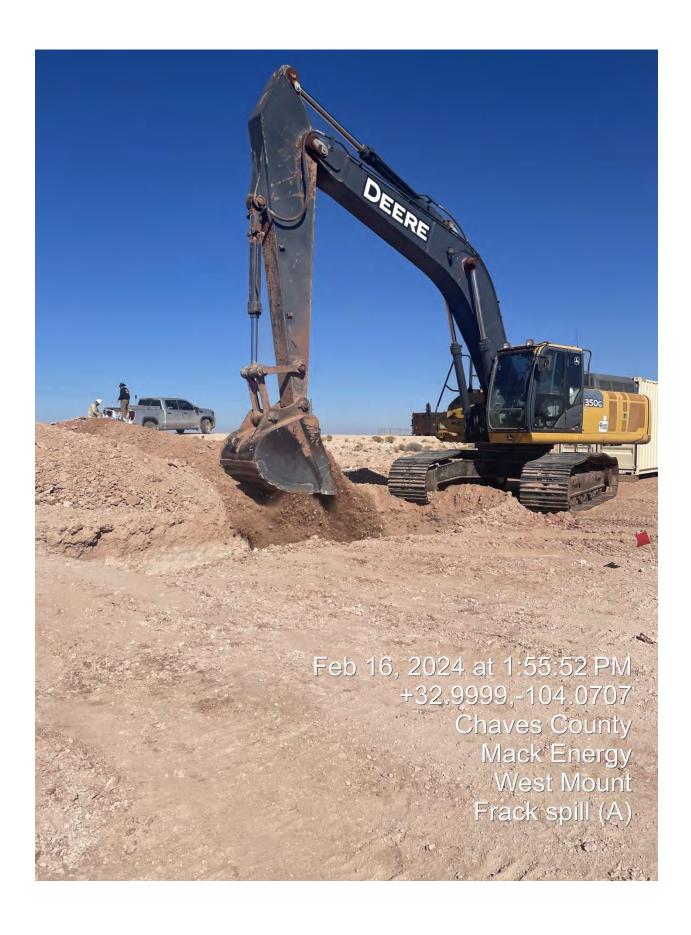


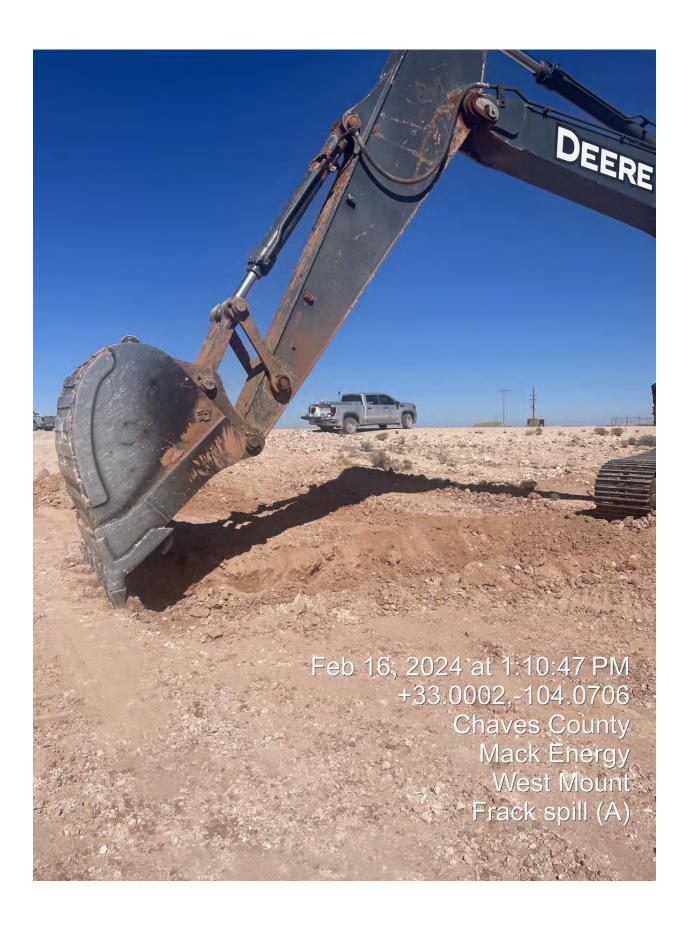


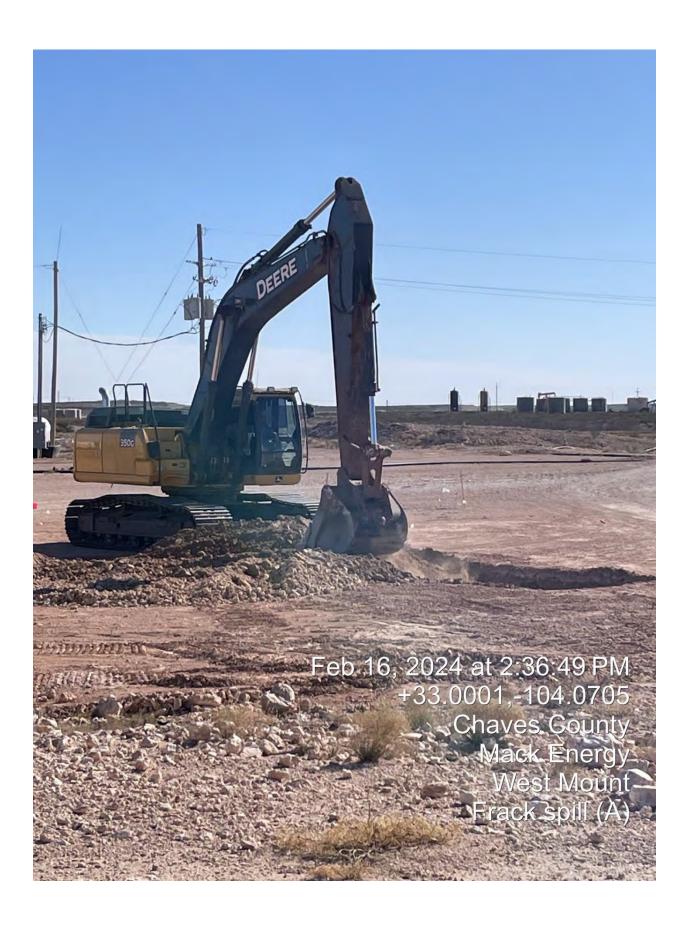












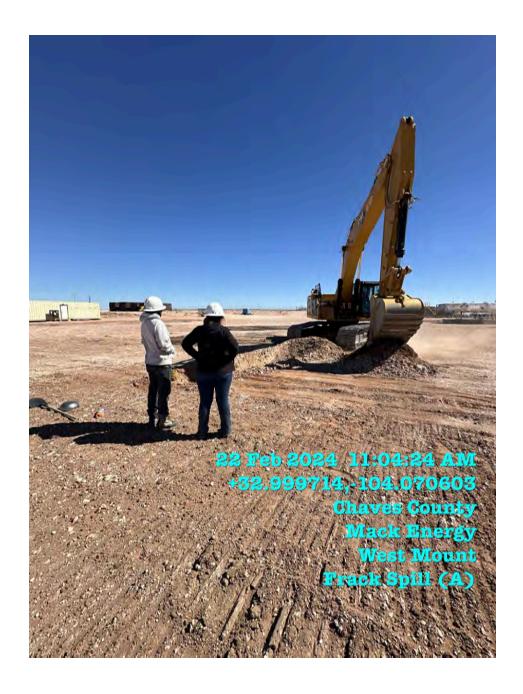






















From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Wednesday, December 11, 2024 12:06 PM **To:** Natalie Gladden <natalie@energystaffingllc.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 410723

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#) nAPP2327756575.

The sampling event is expected to take place:

When: 12/16/2024 @ 07:00

Where: K-19-15S-29E 0 FNL 0 FEL (33.000002,-104.070796)

Additional Information: PLEASE CONTACT NATALIE GLADDEN AT 5753906397 TO SAMPLE THE WEST

MOUNT SPILL A PROJECT

Additional Instructions: 33.000002 -104.070796

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 Location: WEST MOUNT SPILL A

COMP1 10 240 L ND ND ND ND ND 137 COMP2 2 320 L ND ND ND ND ND ND ND ND 287 COMP3 2 320 L ND	SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
COMP3 2 320 L ND ND ND ND ND 286 COMP4 10 320 L ND ND <t< td=""><td>COMP1</td><td>10</td><td>240</td><td>L</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>137</td></t<>	COMP1	10	240	L	ND	ND	ND	ND	ND	137
COMP3 2 320 L ND ND ND ND ND 286 COMP4 10 320 L ND ND <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
COMP4 10 320 L ND ND ND ND ND 283 COMP5 8 320 L ND ND ND ND ND ND 279 COMP6 8 400 L ND ND ND ND ND ND ND 287 COMP7 8 320 L ND ND ND ND ND ND ND ND 288 COMP8 6 400 L ND ND ND ND ND ND ND ND 1150 COMP8A 8 240 L ND ND ND ND ND ND ND ND 133 COMP9 2 240 L ND ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 337	COMP2	2	320	L	ND	ND	ND	ND	ND	287
COMP4 10 320 L ND ND ND ND ND 283 COMP5 8 320 L ND ND ND ND ND ND 279 COMP6 8 400 L ND ND ND ND ND ND ND 287 COMP7 8 320 L ND ND ND ND ND ND ND ND 288 COMP8 6 400 L ND ND ND ND ND ND ND ND 1150 COMP8A 8 240 L ND ND ND ND ND ND ND ND 133 COMP9 2 240 L ND ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 337										
COMP5 8 320 L ND ND ND ND ND 279 COMP6 8 400 L ND ND ND ND ND ND ND ND 287 COMP7 8 320 L ND <	COMP3	2	320	L	ND	ND	ND	ND	ND	286
COMP5 8 320 L ND ND ND ND ND 279 COMP6 8 400 L ND ND ND ND ND ND ND ND 287 COMP7 8 320 L ND <										
COMP6 8 400 L ND ND ND ND ND ND 287 COMP7 8 320 L ND ND ND ND ND ND ND 1150 COMP8 6 400 L ND ND ND ND ND ND ND ND ND 140 COMP8A 8 240 L ND ND ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	COMP4	10	320	L	ND	ND	ND	ND	ND	283
COMP6 8 400 L ND ND ND ND ND ND 287 COMP7 8 320 L ND ND ND ND ND ND ND 1150 COMP8 6 400 L ND ND ND ND ND ND ND ND ND 140 COMP8A 8 240 L ND ND ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	COMPL	0	220		ND	ND	ND	ND	ND	270
COMP7 8 320 L ND ND ND ND ND 288 COMP8 6 400 L ND ND ND ND ND ND ND 1150 COMP8A 8 240 L ND	COIVIPS	8	320	L	טוו	ND	טוו	ND	ND	2/9
COMP7 8 320 L ND ND ND ND ND 288 COMP8 6 400 L ND ND ND ND ND ND ND 1150 COMP8A 8 240 L ND	COMP6	8	400	-	ND	ND	ND	ND	ND	287
COMP8 6 400 L ND ND ND ND ND 1150 COMP8A 8 240 L ND ND ND ND ND ND ND 133 COMP9 2 240 L ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	COIVII 0	0	400		ND	ND	ND	ND	ND	207
COMP8 6 400 L ND ND ND ND ND 1150 COMP8A 8 240 L ND ND ND ND ND ND ND 133 COMP9 2 240 L ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	COMP7	8	320	L	ND	ND	ND	ND	ND	288
COMP8A 8 240 L ND ND ND ND ND A87 COMP9 2 240 L ND ND ND ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND 337 COMP14 14 320 L ND ND ND ND ND ND 347										
COMP9 2 240 L ND ND ND ND ND 133 COMP10 2 240 L ND ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND 337 COMP14 14 320 L ND ND ND ND ND ND 347	COMP8	6	400	L	ND	ND	ND	ND	ND	1150
COMP10 2 240 L ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	COMP8A	8	240	L	ND	ND	ND	ND	ND	487
COMP10 2 240 L ND ND ND ND ND 140 COMP11 12 240 L ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347										
COMP11 12 240 L ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	СОМР9	2	240	L	ND	ND	ND	ND	ND	133
COMP11 12 240 L ND ND ND ND ND ND 75.4 COMP12 10 240 L ND ND ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347										
COMP12 10 240 L ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	COMP10	2	240	L	ND	ND	ND	ND	ND	140
COMP12 10 240 L ND ND ND ND ND 71 COMP13 10 240 L ND ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND ND 347	0011511	- 10	2.12							
COMP13 10 240 L ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND 347	COMP11	12	240	L	ND	ND	ND	ND	ND	/5.4
COMP13 10 240 L ND ND ND ND ND 66.6 COMP14 14 320 L ND ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND 347	COMP12	10	240	-	ND	ND	ND	ND	ND	71
COMP14 14 320 L ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND 347	COMP12	10	240		ND	IND	ND	ND	IND	/1
COMP14 14 320 L ND ND ND ND ND 337 COMP15 10 320 L ND ND ND ND ND ND 347	COMP13	10	240	L	ND	ND	ND	ND	ND	66.6
COMP15 10 320 L ND ND ND ND ND 347										
	COMP14	14	320	L	ND	ND	ND	ND	ND	337
COMP16 10 320 L ND ND ND ND ND 333	COMP15	10	320	L	ND	ND	ND	ND	ND	347
COMP16 10 320 L ND ND ND ND ND 333										
	COMP16	10	320	L	ND	ND	ND	ND	ND	333
COMP17 10 320 L ND ND ND ND ND 347	COMP17	10	320	L	ND	ND	ND	ND	ND	347
COMP19 14 220 1 MD MD MD MD AID 246	COMP10	1.1	220	,	NID	NID	ND	NID	NID	246
COMP18 14 320 L ND ND ND ND ND 346	COIVIP18	14	320	L	NU	NU	IND	ND	ND	340
COMP19 12 400 L ND ND ND ND ND 374	COMP19	12	400		ND	ND	ND	ND	ND	374
374 TO E 110 IND IND IND S74	COIVII 13	14	+00		140	140	140	140	140	3/4
COMP20 12 400 L ND ND ND ND ND 308	COMP20	12	400	L	ND	ND	ND	ND	ND	308
COMP21 12 400 L ND ND ND ND ND 513	COMP21	12	400	L	ND	ND	ND	ND	ND	513

COMP22	6	400	L	ND	ND	ND	ND	ND	382
COMP23	6	160	L	ND	ND	ND	ND	ND	125
COMP24	6	240	L	ND	ND	ND	ND	ND	108
COMP25	6	240	-	ND	ND	ND	ND	ND	220
COMP25	O	240	L	ND	ND	ND	ND	ND	230
COMP26	6	240	L	ND	ND	ND	ND	ND	211
COMP27	6	160	L	ND	ND	ND	ND	ND	114
COMP28	6	160	L	ND	ND	ND	ND	ND	111
COMP29	6	320	L	ND	ND	ND	ND	ND	640
COMP29A	8	320	L	ND	ND	ND	ND	ND	275
COMP30	6	320	L	ND	ND	ND	ND	ND	630
COMP30A	8	240	L	ND	ND	ND	ND	ND	274
COMP31	12	240	L	ND	ND	ND	ND	ND	209
COMP32	12	240	L	ND	ND	ND	ND	ND	216
COMP33	6	160	L	ND	ND	ND	ND	ND	107
COMP34	2	240	L	ND	ND	ND	ND	ND	231
COMP35	2	320	L	ND	ND	ND	ND	ND	201
СОМР36	2	320	L	ND	ND	ND	ND	ND	187
COMP37	2	240	L	ND	ND	ND	ND	ND	328
COMP38	2	240	L	ND	ND	ND	ND	ND	332
COMP39	2	320	L	ND	ND	ND	ND	ND	195
COMP40	6	320	L	ND	ND	ND	ND	ND	194
COMP41	6	160	L	ND	ND	ND	ND	ND	288
COMP42	6	160	L	ND	ND	ND	ND	ND	264
COMP43	6	160	L	ND	ND	ND	ND	ND	260
COMP44	12	160	L	ND	ND	ND	ND	ND	244

COMP45	12	160	L	ND	ND	ND	ND	ND	247
COMP46	12	160	L	ND	ND	ND	ND	ND	227
6014547		220		AUD.	A15	AUD.	ALD.	AUD.	25.4
COMP47	4	320	L	ND	ND	ND	ND	ND	354
COMP48	4	320	L	ND	ND	ND	ND	ND	323
COLVII IO	•	320	_	110	110	110	110	110	323
COMP49	4	240	L	ND	ND	ND	ND	ND	194
COMP50	4	240	L	ND	ND	ND	ND	ND	184
COMP51	4	240	L	ND	ND	ND	ND	ND	233
SWCOMP1	10	160	-	ND	ND	ND	ND	ND	120
SWCOWPI	10	160	L	ND	ND	ND	ND	ND	130
SWCOMP2	10	160	L	ND	ND	ND	ND	ND	127
			_	.,,_	.,,_		.,,_	.,,_	;
SWCOMP3	4	160	L	ND	ND	ND	ND	ND	128
SWCOMP4	10	160	L	ND	ND	ND	ND	ND	137
SWCOMP5	10	160	L	ND	ND	ND	ND	ND	119
SWCOMP6	14	160	L	ND	ND	ND	ND	ND	122
SWCOMFO	14	100	L	IND	IND	IND	ND	ND	122
SWCOMP7	14	160	L	ND	ND	ND	ND	ND	180
SWCOMP8	12	320	L	ND	ND	ND	ND	ND	181
SWCOMP9	12	320	L	ND	ND	ND	ND	ND	184
01110011010		222		***			415	***	170
SWCOMP10	8	320	L	ND	ND	ND	ND	ND	178
SWCOMP11	8	320	L	ND	ND	ND	ND	ND	209
244 COIVIL II	O	320	L	IND	IND	IND	IND	IND	203
SWCOMP12	8	320	L	ND	ND	ND	ND	ND	209
SWCOMP13	12	320	L	ND	ND	ND	ND	ND	209

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 A

Work Order: E412171

Job Number: 20046-0001

Received: 12/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/24/24

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: 12/24/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E412171

Date Received: 12/23/2024 6:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/23/2024 6:30:00AM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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 A	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/24 08:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 1-10	E412171-01A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 2-2	E412171-02A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 3-2	E412171-03A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 4-10	E412171-04A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 5-8	E412171-05A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 6-8	E412171-06A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 7-8	E412171-07A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 8-6	E412171-08A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 9-2	E412171-09A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.
SP Comp 10-2	E412171-10A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 1-10 E412171-01

		E-7121/1-01				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2452002
Benzene	ND	0.0250	1	12/23/24	12/23/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/23/24	
Toluene	ND	0.0250	1	12/23/24	12/23/24	
o-Xylene	ND	0.0250	1	12/23/24	12/23/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/23/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/23/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2452002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2452006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		105 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2452003
Chloride	137	20.0	1	12/23/24	12/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 2-2 E412171-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Benzene	ND	0.0250	1	12/23/24	12/23/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/23/24	
Toluene	ND	0.0250	1	12/23/24	12/23/24	
o-Xylene	ND	0.0250	1	12/23/24	12/23/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/23/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/23/24	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2452006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		110 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2452003
Chloride	287	40.0	2	12/23/24	12/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 3-2 E412171-03

Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: SL		Batch: 2452002
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0500	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
	94.9 %	70-130	12/23/24	12/23/24	
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2452002
ND	20.0	1	12/23/24	12/23/24	
	90.2 %	70-130	12/23/24	12/23/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2452006
ND	25.0	1	12/23/24	12/23/24	
ND	50.0	1	12/23/24	12/23/24	
	108 %	50-200	12/23/24	12/23/24	
mg/kg	mg/kg	Ana	lyst: JM		Batch: 2452003
286	40.0	2	12/23/24	12/23/24	
	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 MD 0.0250 MD 0.0250 94.9 % mg/kg MD 20.0 90.2 % mg/kg ND 25.0 ND 50.0 108 % mg/kg mg/kg mg/kg	mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 94.9 % 70-130 mg/kg mg/kg Ana ND 20.0 1 90.2 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 108 % 50-200 mg/kg Mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0500 1 12/23/24 ND 0.0250 1 12/23/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/23/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/23/24 ND 25.0 1 12/23/24 ND 50.0 1 12/23/24 ND 50.0 1 12/23/24 ND 50.0 1 12/23/24 Mg/kg mg/kg Analyst: JM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0500 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/23/24 12/23/24 mg/kg mg/kg Analyst: SL 1 12/23/24 12/23/24 mg/kg mg/kg Analyst: NV 1 12/23/24 12/23/24 ND 25.0 1 12/23/24 12/23/24 ND 50.0 1 12/23/24 12/23/24 ND 50.0 1 12/23/24 12/23/24 ND 50.0



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 4-10

		E412171-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Benzene	ND	0.0250	1	12/23/24	12/23/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/23/24	
Toluene	ND	0.0250	1	12/23/24	12/23/24	
o-Xylene	ND	0.0250	1	12/23/24	12/23/24	
o,m-Xylene	ND	0.0500	1	12/23/24	12/23/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/23/24	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2452006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		106 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2452003
Chloride	283	40.0	2	12/23/24	12/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 5-8 E412171-05

		E-112171 03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Benzene	ND	0.0250	1	12/23/24	12/23/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/23/24	
Toluene	ND	0.0250	1	12/23/24	12/23/24	
o-Xylene	ND	0.0250	1	12/23/24	12/23/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/23/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/23/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2452006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		107 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2452003
Chloride	279	40.0	2	12/23/24	12/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 6-8 E412171-06

		E-7121/1-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Benzene	ND	0.0250	1	12/23/24	12/23/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/23/24	
Toluene	ND	0.0250	1	12/23/24	12/23/24	
o-Xylene	ND	0.0250	1	12/23/24	12/23/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/23/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/23/24	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2452006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		109 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2452003
Chloride	287	20.0	1	12/23/24	12/23/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 7-8 E412171-07

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0500	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
	88.7 %	70-130	12/23/24	12/23/24	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
ND	20.0	1	12/23/24	12/23/24	
	95.2 %	70-130	12/23/24	12/23/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2452006
ND	25.0	1	12/23/24	12/23/24	
ND	50.0	1	12/23/24	12/23/24	
	108 %	50-200	12/23/24	12/23/24	
mg/kg	mg/kg	Anal	yst: JM		Batch: 2452003
288	40.0	2	12/23/24	12/23/24	
	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 88.7 % mg/kg mg/kg mg/kg ND 20.0 95.2 % mg/kg ND 25.0 ND 50.0 108 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 88.7 % 70-130 mg/kg mg/kg Anal ND 20.0 1 95.2 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 108 % 50-200 mg/kg Mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0500 1 12/23/24 ND 0.0250 1 12/23/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/23/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/23/24 ND 25.0 1 12/23/24 ND 50.0 1 12/23/24 ND 50.0 1 12/23/24 ND 50.0 1 12/23/24 Mg/kg mg/kg Analyst: JM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0500 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 88.7 % 70-130 12/23/24 12/23/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/23/24 12/23/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/23/24 12/23/24 ND 25.0 1 12/23/24 12/23/24 ND 50.0 1 12/23/24 12/23/24 ND 50.0 1 12/23/24 12/23/24 ND



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 8-6 E412171-08

nalyzed Notes Batch: 2452002
2/22/24
2/23/24
2/23/24
2/23/24
2/23/24
2/23/24
2/23/24
2/23/24
Batch: 2452002
2/23/24
2/23/24
Batch: 245200
2/23/24
2/23/24
2/23/24
Batch: 245200



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 9-2 E412171-09

	2.121/1 0/				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2452002
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
ND	0.0500	1	12/23/24	12/23/24	
ND	0.0250	1	12/23/24	12/23/24	
	89.2 %	70-130	12/23/24	12/23/24	
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2452002
ND	20.0	1	12/23/24	12/23/24	
	94.1 %	70-130	12/23/24	12/23/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2452006
ND	25.0	1	12/23/24	12/23/24	
ND	50.0	1	12/23/24	12/23/24	
	115 %	50-200	12/23/24	12/23/24	
mg/kg	mg/kg	Ana	lyst: JM		Batch: 2452003
133	20.0	1	12/23/24	12/23/24	
	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 89.2 % mg/kg mg/kg mg/kg ND 20.0 94.1 % mg/kg ND 25.0 ND 50.0 115 % mg/kg mg/kg mg/kg	mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 89.2 % 70-130 mg/kg mg/kg Ana ND 20.0 1 94.1 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 115 % 50-200 mg/kg Mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0250 1 12/23/24 ND 0.0500 1 12/23/24 ND 0.0500 1 12/23/24 ND 0.0250 1 12/23/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/23/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/23/24 ND 25.0 1 12/23/24 ND 50.0 1 12/23/24 ND 50.0 1 12/23/24 Mg/kg mg/kg Analyst: SL Analyst: M	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0500 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 ND 0.0250 1 12/23/24 12/23/24 89.2 % 70-130 12/23/24 12/23/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/23/24 12/23/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/23/24 12/23/24 ND 25.0 1 12/23/24 12/23/24 ND 50.0 1 12/23/24 12/23/24 ND 50.0 1 12/23/24 12/23/24 Mg/kg



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

SP Comp 10-2 E412171-10

		E-7121/1-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2452002
Benzene	ND	0.0250	1	12/23/24	12/23/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/23/24	
Toluene	ND	0.0250	1	12/23/24	12/23/24	
o-Xylene	ND	0.0250	1	12/23/24	12/23/24	
o,m-Xylene	ND	0.0500	1	12/23/24	12/23/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/23/24	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2452002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	12/23/24	12/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2452006
Diesel Range Organics (C10-C28)	ND	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane		80.4 %	50-200	12/23/24	12/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2452003
Chloride	140	20.0	1	12/23/24	12/23/24	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden				1	2/24/2024 8:17:58AM
		Volatile O	rganics b	oy EPA 8021	В				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2452002-BLK1)							Prepared: 1	2/23/24 Aı	nalyzed: 12/23/24
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	7.15		8.00		89.4	70-130			
LCS (2452002-BS1)							Prepared: 1	2/23/24 Aı	nalyzed: 12/23/24
Benzene	5.68	0.0250	5.00		114	70-130			
Ethylbenzene	5.47	0.0250	5.00		109	70-130			
Toluene	5.59	0.0250	5.00		112	70-130			
o-Xylene	5.46	0.0250	5.00		109	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	7.45		8.00		93.2	70-130			
LCS Dup (2452002-BSD1)							Prepared: 1	2/23/24 Aı	nalyzed: 12/23/24
Benzene	5.47	0.0250	5.00		109	70-130	3.69	20	
Ethylbenzene	5.30	0.0250	5.00		106	70-130	3.11	20	
Toluene	5.40	0.0250	5.00		108	70-130	3.53	20	
o-Xylene	5.29	0.0250	5.00		106	70-130	3.17	20	
p,m-Xylene	10.8	0.0500	10.0		108	70-130	3.15	20	
Total Xylenes	16.1	0.0250	15.0		107	70-130	3.15	20	



Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

	Non	halogenated	Organics l	by EPA 801	1 5D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2452002-BLK1)							Prepared: 12	2/23/24 Anal	yzed: 12/23/24
Blank (2452002-BLK1) Gasoline Range Organics (C6-C10)	ND	20.0					Prepared: 12	2/23/24 Anal	yzed: 12/23/24
	ND 7.35	20.0	8.00		91.9	70-130	Prepared: 12	2/23/24 Anal	yzed: 12/23/24
Gasoline Range Organics (C6-C10)		20.0	8.00		91.9	70-130	•		yzed: 12/23/24 yzed: 12/23/24
Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID		20.0	8.00		91.9	70-130	•		-

8.00

70-130

70-130

93.9

8.55

20.0

7.51

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/2024 8:17:58AM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1				12/24/2024 8:17:58AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	ORO/			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
LCS (2452006-BS1)							Prepared:	12/23/24	Analyzed: 12/23/24
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			
Matrix Spike (2452006-MS1)				Source:	E412171-1	10	Prepared:	12/23/24	Analyzed: 12/23/24
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	54.7		50.0		109	50-200			
Matrix Spike Dup (2452006-MSD1)				Source:	E412171-1	10	Prepared:	12/23/24	Analyzed: 12/23/24
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	4.75	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			
Blank (2452006-BLK2)							Prepared:	12/23/24	Analyzed: 12/23/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.6	·	50.0		89.2	50-200			·



Chloride

QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount A 0046-0001					Reported:
Artesia NM, 88210		Project Manager	:: N	atalie Gladden	l			12	2/24/2024 8:17:58AM
		Anions	by EPA	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 (2452003-BLK1)							Prepared: 1	2/23/24 An	alyzed: 12/23/24
Chloride	ND	20.0							
LCS (2452003-BS1)							Prepared: 1	2/23/24 An	alyzed: 12/23/24
Chloride	256	20.0	250		102	90-110			
LCS Dup (2452003-BSD1)							Prepared: 1	2/23/24 An	alyzed: 12/23/24

250

20.0

103

90-110

0.364

20

257

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 A	
ı	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	12/24/24 08:17

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.



Alternative in the control of the co	Chent: Macce Every Address: Project ware Amount A Address: City, State, Zip Phone: Email. Report due by Time Indie Sprangles Share Sprangle iD Sprangles Share Sprangle Sprangle Sprangle iD Sprangles Sprangles Sprangle Sprangle Sprangle in Sprangle in Sprangle in Sprangle Sprangle in Sprangl
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Page 277 of 457 Printed: 12/23/2024 8:52:41AM

envirotech Inc.

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:	12/23/24 06	5:30		Work Order ID:	E412171
Phone:	(575) 390-6397		12/23/24 06			Logged In By:	Raina Schwanz
Email:	Natalie@energystaffingllc.com	Date Logged In: Due Date:		7:00 (1 day TAT)		Logged III By.	Kama Schwanz
Eman.	ratane@energystamingne.com	Duc Date.	12/24/24 1	7.00 (1 day 1741)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
Sample T	i.e, 15 minute hold time, are not included in this disucssiturn Around Time (TAT)	on.		ı			5/1105014H011
	COC indicate standard TAT, or Expedited TAT?		Yes		Project m	anager and tin	ne sampled not
			103		listed on	=	r
Sample C	ample cooler received?		Yes		nstea on	coc.	
	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 the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar		Yes				
	minutes of sampling	c received w/r 15					
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°C	<u>2</u>				
Sample C	ontainer						
	jueous 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				
Field Lab	<u>el</u>						
20. Were t	field sample labels filled out with the minimum info	ormation:					
	imple ID?		Yes				
	ate/Time Collected? ollectors name?		No	•			
	reservation		No				
	the COC or field labels indicate the samples were price.	reserved?	No				
	mple(s) correctly preserved?	reserved.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix		110				
	the sample waters:	sa?	No				
	does the COC specify which phase(s) is to be analy		No NA				
•		yzcu:	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	-	No				
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA :	Subcontract Lab	: NA		
Client In	<u>struction</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 A

Work Order: E412186

Job Number: 20046-0001

Received: 12/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/30/24

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: 12/30/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E412186

Date Received: 12/24/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/24/2024 8:00:00AM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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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whinchman@envirotech-inc.com

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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 A	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/24 13:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 11-12	E412186-01A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 12-10	E412186-02A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 13-10	E412186-03A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 14-14	E412186-04A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 15-10	E412186-05A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 16-10	E412186-06A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 17-10	E412186-07A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 18-14	E412186-08A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 19-12	E412186-09A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 20-12	E412186-10A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 21-12	E412186-11A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.
SP Comp 22-6	E412186-12A	Soil	12/20/24	12/24/24	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 11-12 E412186-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Benzene	ND	0.0250	1	1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250	1	1	12/24/24	12/24/24	
Toluene	ND	0.0250	1	1	12/24/24	12/24/24	
o-Xylene	ND	0.0250	1	1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500	1	1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250	1	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		115 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		115 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0	1	1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	12/24/24	12/24/24	
Surrogate: n-Nonane		109 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2452029



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 12-10

E412186-02							
Reporting							
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Benzene	ND	0.0250		1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24	
Toluene	ND	0.0250		1	12/24/24	12/24/24	
o-Xylene	ND	0.0250		1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		119 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		119 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24	
Surrogate: n-Nonane		114 %	50-200		12/24/24	12/24/24	

mg/kg

20.0

mg/kg

71.0

Analyst: DT

12/24/24

12/24/24



Batch: 2452029

Anions by EPA 300.0/9056A

Chloride

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 13-10

E412186-03

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2452026
Benzene	ND	0.0250		1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24	
Toluene	ND	0.0250		1	12/24/24	12/24/24	
o-Xylene	ND	0.0250		1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250	1	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		118 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg		Analyst: RKS			Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		118 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24	
Surrogate: n-Nonane		109 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2452029
					12/24/24	12/24/24	

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 14-14

E412186-04							
Reporting							
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Benzene	ND	0.0250		1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24	
Toluene	ND	0.0250		1	12/24/24	12/24/24	
o-Xylene	ND	0.0250		1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		118 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		111 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		118 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		111 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24	
Surrogate: n-Nonane		114 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2452029

20.0

12/24/24

12/24/24

337



Chloride

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 15-10

		E412186-05						
Reporting								
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	50B mg/kg			Analyst: RKS			Batch: 2452026	
Benzene	ND	0.0250		1	12/24/24	12/24/24		
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24		
Toluene	ND	0.0250		1	12/24/24	12/24/24		
o-Xylene	ND	0.0250		1	12/24/24	12/24/24		
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24		
Total Xylenes	ND	0.0250		1	12/24/24	12/24/24		
Surrogate: Bromofluorobenzene		121 %	70-130		12/24/24	12/24/24		
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		12/24/24	12/24/24		
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	kg mg/kg		Analyst: RKS			Batch: 2452026	
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24		
Surrogate: Bromofluorobenzene		121 %	70-130		12/24/24	12/24/24		
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		12/24/24	12/24/24		
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	rg mg/kg		Analyst: NV		Batch: 2452033		
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24		
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24		
Surrogate: n-Nonane		114 %	50-200		12/24/24	12/24/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2452029	
		•					•	

20.0

12/24/24

12/24/24

347



Chloride

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 16-10

E412186-06

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg mg/kg		Analyst: RKS			Batch: 2452026
Benzene	ND	0.0250	1	1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250	1	1	12/24/24	12/24/24	
Toluene	ND	0.0250	1	1	12/24/24	12/24/24	
o-Xylene	ND	0.0250	1	1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500	1	1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250	1	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene	·	119 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2452026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		119 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg Analyst: NV			Batch: 2452033	
Diesel Range Organics (C10-C28)	ND	25.0	1	1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	12/24/24	12/24/24	
Surrogate: n-Nonane		108 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2452029



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 17-10

E41	21	06	07

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg mg/kg		Analyst: RKS			Batch: 2452026
Benzene	ND	0.0250		1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24	
Toluene	ND	0.0250		1	12/24/24	12/24/24	
o-Xylene	ND	0.0250]	1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500]	1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250	į	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene	·	118 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		113 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2452026	
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		118 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		113 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg Analyst: NV			Batch: 2452033		
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24	
Surrogate: n-Nonane		112 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2452029
		·			·	12/24/24	<u> </u>



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 18-14

E41	21	8	6-	N8

		Reporting					
Analyte	Result	Limit	Dilı	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2452026
Benzene	ND	0.0250		1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24	
Toluene	ND	0.0250		1	12/24/24	12/24/24	
o-Xylene	ND	0.0250		1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		116 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		116 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		112 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24	
Surrogate: n-Nonane		109 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2452029



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 19-12

		E412186-09					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2452026
Benzene	ND	0.0250		1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24	
Toluene	ND	0.0250		1	12/24/24	12/24/24	
o-Xylene	ND	0.0250		1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		114 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		114 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24	
Surrogate: n-Nonane		116 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2452029

20.0

12/24/24

12/24/24

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Chloride

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 20-12

		E412186-10						
		Reporting						
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B		mg/kg		Analyst:	RKS		Batch: 2452026	
Benzene	ND	0.0250		1	12/24/24	12/24/24		
Ethylbenzene	ND	0.0250		1	12/24/24	12/24/24		
Toluene	ND	0.0250		1	12/24/24	12/24/24		
o-Xylene	ND	0.0250		1	12/24/24	12/24/24		
p,m-Xylene	ND	0.0500		1	12/24/24	12/24/24		
Total Xylenes	ND	0.0250		1	12/24/24	12/24/24		
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24		
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		12/24/24	12/24/24		
Surrogate: Toluene-d8		113 %	70-130		12/24/24	12/24/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026	
Gasoline Range Organics (C6-C10)	ND	20.0		1	12/24/24	12/24/24		
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24		
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		12/24/24	12/24/24		
Surrogate: Toluene-d8		113 %	70-130		12/24/24	12/24/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2452033	
Diesel Range Organics (C10-C28)	ND	25.0		1	12/24/24	12/24/24		
Oil Range Organics (C28-C36)	ND	50.0		1	12/24/24	12/24/24		
Surrogate: n-Nonane		110 %	50-200		12/24/24	12/24/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2452029	

20.0

12/24/24

12/24/24

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Chloride

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 21-12

E412186-11

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: F	RKS		Batch: 2452026
Benzene	ND	0.0250	1		12/24/24	12/24/24	
Ethylbenzene	ND	0.0250	1		12/24/24	12/24/24	
Toluene	ND	0.0250	1		12/24/24	12/24/24	
o-Xylene	ND	0.0250	1		12/24/24	12/24/24	
p,m-Xylene	ND	0.0500	1		12/24/24	12/24/24	
Total Xylenes	ND	0.0250	1		12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		111 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: F	RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0	1		12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		111 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: N	NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0	1		12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1		12/24/24	12/24/24	
Surrogate: n-Nonane		111 %	50-200		12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: Γ	OT		Batch: 2452029
Allions by ETA 500.0/7050A							



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

SP Comp 22-6 E412186-12

		E412100-12					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
- Amarya	Result				•	Zinaryzed	110103
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Benzene	ND	0.0250	1	1	12/24/24	12/24/24	
Ethylbenzene	ND	0.0250	1	1	12/24/24	12/24/24	
Toluene	ND	0.0250	1	1	12/24/24	12/24/24	
o-Xylene	ND	0.0250	1	1	12/24/24	12/24/24	
p,m-Xylene	ND	0.0500	1	1	12/24/24	12/24/24	
Total Xylenes	ND	0.0250	1	1	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		113 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2452026
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	12/24/24	12/24/24	
Surrogate: Bromofluorobenzene		117 %	70-130		12/24/24	12/24/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		12/24/24	12/24/24	
Surrogate: Toluene-d8		113 %	70-130		12/24/24	12/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2452033
Diesel Range Organics (C10-C28)	ND	25.0	1	1	12/24/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	12/24/24	12/24/24	
Surrogate: n-Nonane		118 %	50-200	·	12/24/24	12/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2452029
Chloride	382	20.0	1	1	12/24/24	12/24/24	



Mack EnergyProject Name:West Mount AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden12/30/2024 1:47:05PM

Artesia NM, 88210		Project Manager	r: Na	atalie Gladden				12/3	30/2024 1:47:05PN
	V	olatile Organ	ic Compo	unds by EP	A 82601	В		I	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 (2452026-BLK1)							Prepared: 12	2/23/24 Anal	yzed: 12/23/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
-Xylene	ND	0.0250							
,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Gurrogate: Bromofluorobenzene	0.605		0.500		121	70-130			
Gurrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.7	70-130			
Surrogate: Toluene-d8	0.567		0.500		113	70-130			
LCS (2452026-BS1)							Prepared: 12	2/23/24 Anal	yzed: 12/23/24
Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.78	0.0250	2.50		111	70-130			
Coluene	2.74	0.0250	2.50		109	70-130			
-Xylene	2.91	0.0250	2.50		116	70-130			
,m-Xylene	5.79	0.0500	5.00		116	70-130			
Total Xylenes	8.69	0.0250	7.50		116	70-130			
Gurrogate: Bromofluorobenzene	0.606		0.500		121	70-130			
Gurrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Gurrogate: Toluene-d8	0.551		0.500		110	70-130			
LCS Dup (2452026-BSD1)							Prepared: 12	2/23/24 Anal	yzed: 12/23/24
Benzene	2.47	0.0250	2.50		98.7	70-130	7.38	23	
Ethylbenzene	2.62	0.0250	2.50		105	70-130	6.22	27	
Coluene	2.56	0.0250	2.50		103	70-130	6.53	24	
-Xylene	2.75	0.0250	2.50		110	70-130	5.70	27	
,m-Xylene	5.47	0.0500	5.00		109	70-130	5.61	27	
Cotal Xylenes	8.22	0.0250	7.50		110	70-130	5.64	27	
Gurrogate: Bromofluorobenzene	0.599		0.500		120	70-130			

0.500

0.557

111

70-130



Surrogate: Toluene-d8

Mack EnergyProject Name:West Mount AReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden12/30/20241:47:05PM

Nonhalogenated	Organics 1	by EPA	8015D -	GRO

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 (2452026-BLK1)						Drangrad: 1	2/23/24	Analyzed: 12/23/24
						riepared: 1.	2123124 1	Allalyzeu. 12/23/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.605		0.500	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500	91.7	70-130			
Surrogate: Toluene-d8	0.567		0.500	113	70-130			
LCS (2452026-BS2)						Prepared: 1	2/23/24	Analyzed: 12/23/24
Gasoline Range Organics (C6-C10)	60.4	20.0	50.0	121	70-130			
Surrogate: Bromofluorobenzene	0.609		0.500	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500	98.3	70-130			
Surrogate: Toluene-d8	0.559		0.500	112	70-130			
LCS Dup (2452026-BSD2)						Prepared: 1	2/23/24	Analyzed: 12/23/24
Gasoline Range Organics (C6-C10)	59.8	20.0	50.0	120	70-130	1.07	20	
Surrogate: Bromofluorobenzene	0.606		0.500	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500	95.7	70-130			
Surrogate: Toluene-d8	0.572		0.500	114	70-130			



Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	_
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/2024 1:47:05PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	ı				12/30/2024 1:47:05PM
	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 (2452033-BLK1)							Prepared: 1	2/24/24 <i>F</i>	Analyzed: 12/24/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.6		50.0		103	50-200			
LCS (2452033-BS1)							Prepared: 1	2/24/24 A	Analyzed: 12/24/24
Diesel Range Organics (C10-C28)	194	25.0	250		77.4	38-132			
urrogate: n-Nonane	51.7		50.0		103	50-200			
Matrix Spike (2452033-MS1)				Source:	E412186-0	04	Prepared: 1	2/24/24 A	Analyzed: 12/24/24
Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132			
urrogate: n-Nonane	55.3		50.0		111	50-200			
Matrix Spike Dup (2452033-MSD1)				Source:	E412186-	04	Prepared: 1	2/24/24 A	Analyzed: 12/24/24
Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132	0.541	20	
'urrogate: n-Nonane	55.0		50.0		110	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number		Vest Mount A					Reported:
Artesia NM, 88210		Project Manager		atalie Gladden	l			1	2/30/2024 1:47:05PM
		Anions	by EPA	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 (2452029-BLK1)							Prepared: 12	2/23/24 An	nalyzed: 12/23/24
Chloride	ND	20.0							
LCS (2452029-BS1)							Prepared: 12	2/23/24 An	nalyzed: 12/23/24
Chloride	254	20.0	250		102	90-110			
LCS Dup (2452029-BSD1)							Prepared: 12	2/23/24 An	nalyzed: 12/23/24
Chloride	255	20.0	250		102	90-110	0.280	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 A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/30/24 13:47

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

Page _	1	_of_	2

lient: MARCY CHETGY BIll TO roject: NOSFMUNTA Attention: ENERGY STAFFI											La		e Onl					TA		rogram	
roject: \	Nest	Merr	AA			Attenti	on: ENERGY STAFFING S	ERVICES	Lab	WO#	-		Job N	lumi	oer ,	1D	2D,	3D	Standard	CWA	SDWA
roject Mar	nager:						s: 2724 NW COUNTY RD		EL	121	80				1000		X	-			DCDA
ddress:						City, St	ate, Zip HOBBS, NM 88	240					Analy	sis ar	d Metho	od		- 1			RCRA
ity, State,	Zip					_	575-393-9048		+ 1											State	
hone:						Email:	NATALIE@ENERGYSTAFFIN	GLLC.COM	315	315		M 1					1		NINAL CO	UT AZ	TTVT
mail:						0	BRITTNEY@ENERGYSTAFFI	NGLLC.COM	98 80	9 × 8(121	09	01	0.00		ΣZ	×		NWI CO	UT AZ	11/
leport due	by:								ORO	ORO	by 8021	y 82	s 60°	de 3					14		
Sampled S	Date sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX	VOC by 8260	Metals 6010	Chloride 300.0		редрос	B600C			Remarks	5
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dditional	Instruct	ions:		1																	
(field sampler)							tampering with or intentionally mis	labelling the samp	le loca	tion,			Sampl	les requ	uiring therm at an avg te	al preser	vation n	nust be r less than	eceived on ice the da n 6 °C on subsequent	ay they are sam days.	pled or recei
elinguished t	by: (Signa		In .			In.	eceived by: (Signature)	Date (2.2)	3.0	Fime	114	15	Rec	eive	d on ice		Lab U		nly		
eimanished t			Date /1.	20/24 23.24	Time 27	00 7	achilla	Date 12-20	1.25	18	:00		T1			12	n		<u>T3</u>		
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	7	ratid to	Cl. day A .	queous, O - O	thou			Contain dous samples w	er Tvr	oe: e -	glass	s, p - r				nberg	lass, v	- VO	Α		



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Project Information

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Chain of Custody

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Page _	-	_ of _	

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roject:	west	Mour	AA			Attention: ENERGY STAFFINGS Address: 2724 NW COUNTY RD		Lab	WO#	_		Job N	lum	0001	1D	2D	3D	Standard	CWA	SDWA
	lanager:_					City, State, Zip HOBBS, NM 88		E	IK	800		Analy	cic ar	nd Metho	d					RCRA
ddress:	71	-		-	11 13		1240	-	_			Analy	515 at	ia ivietno	T		П			Hem
ity, Stat	e, Zip				-	Phone: 575-393-9048	CIVIT TO CASSAS												State	
hone:					Ē	mail: NATALIE@ENERGYSTAFFI		8018	301				0	10	4			NMI CO	UT AZ	TX
mail:	176.3				1	BRITTNEY@ENERGYSTAFF	INGLLC COM	Dy 8	by	021	09	10	.00.0		2	×		X	OI AL	111
leport d	ue by:						1	0,40	ORO	8 /0	14 82	s 60	de					1		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	V		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		ВСВОС	ВСПОС			Remarks	
	12/20/24	5		Span	mp Il-	-12	11					1			X					
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Addition	al Instruc	tions:																		
						are that tampering with or intentionally mi		e locat	ion,									ceived on ice the day 5°C on subsequent d		led or receiv
	ed by: (Signa	ature)	Date		ds for legal acti	Received by: (Signature)	1		Time	1111						ab U	lse On	ly		1
Relinquish	ed by: (Sign)	ature	Date	12/24	Time	Regerved by: Gignaturina	0ate 12.24	. 20	Time	, , , ,	2	Rec	eive	on ice:	(Y)/ I	V			
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Relinquish	ed by: (Signa	ature)	Date		Time	Received by: (Signature)	Date		Time			AVG	Ter	np °C	4					
				Aqueous, O - C			Containe		_	-						-				



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envirotech Inc.

Printed: 12/24/2024 8:10:55AM

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.

	Mook Engage	D . D . 1	10/04/04 00	-			THE STATE OF THE S
Client:	Mack Energy	Date Received:	12/24/24 08			Work Order ID:	E412186
Phone:	(575) 390-6397	Date Logged In:	12/23/24 12			Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	12/30/24 17	7:00 (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	Courier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	No				
5. Were a	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					Comment	s/Resolution
Sample 7	Turn Around Time (TAT)				n	1	1 1 ,
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		· -	=	ne sampled not
Sample (Cooler				provided	on COC.	
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				
	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				
		temperature. 4	<u>c</u>				
	Container guegos VOC samples present?		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				
	•						
	trip blank (TB) included for VOC analyses?	•	NA V				
	on-VOC samples collected in the correct containers? appropriate volume/weight or number of sample contain		Yes Yes				
	· ·	iers conected?	168				
Field Lal	field sample labels filled out with the minimum info	rmation					
	ample ID?	imation.	Yes				
	pate/Time Collected?		No				
C	ollectors name?		No				
Sample I	<u>Preservation</u>						
	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are s	ample(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				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	act Laboratory						
	amples required to get sent to a subcontract laborator	·v?	No				
	subcontract laboratory specified by the client and if	-		Subcontract Lab	· NA		
	nstruction		_				
Chent II	<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 A

Work Order: E412194

Job Number: 20046-0001

Received: 12/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/31/24

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: 12/31/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E412194

Date Received: 12/30/2024 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/30/2024 7:00:00AM, under the Project Name: West Mount A.

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

Field Offices:

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Lynn Jarboe

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

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

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Sample Summary

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu.
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/24 13:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 23-6	E412194-01A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 24-6	E412194-02A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 25-6	E412194-03A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 26-6	E412194-04A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 27-6	E412194-05A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 28-6	E412194-06A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 29-6	E412194-07A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 30-6	E412194-08A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 31-12	E412194-09A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 32-12	E412194-10A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 33-6	E412194-11A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.
SP Comp 34-2	E412194-12A	Soil	12/23/24	12/30/24	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 23-6 E412194-01

Reporting Limit	Dilution	D 1		
Limit	Dilution			
	Dilution	Prepared	Analyzed	Notes
mg/kg	Analyst:	SL		Batch: 2453002
0.0250	1	12/29/24	12/29/24	
0.0250	1	12/29/24	12/29/24	
0.0250	1	12/29/24	12/29/24	
0.0250	1	12/29/24	12/29/24	
0.0500	1	12/29/24	12/29/24	
0.0250	1	12/29/24	12/29/24	
01.6 %	70-130	12/29/24	12/29/24	
mg/kg	Analyst:	SL		Batch: 2453002
20.0	1	12/29/24	12/29/24	
2.6 %	70-130	12/29/24	12/29/24	
mg/kg	Analyst:	NV		Batch: 2453008
25.0	1	12/30/24	12/30/24	
50.0	1	12/30/24	12/30/24	
111 %	50-200	12/30/24	12/30/24	
111 % mg/kg	50-200 Analyst:		12/30/24	Batch: 2453009
	0.0250 0.0250 0.0250 0.0250 0.0500 0.0250 1.6 % mg/kg 20.0 2.6 %	0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0500 1 0.0250 1 1.6% 70-130 mg/kg Analyst: 20.0 1 2.6% 70-130 mg/kg Analyst:	0.0250	0.0250 1 12/29/24 12/29/24 0.0250 1 12/29/24 12/29/24 0.0250 1 12/29/24 12/29/24 0.0250 1 12/29/24 12/29/24 0.0500 1 12/29/24 12/29/24 0.0500 1 12/29/24 12/29/24 0.0250 1 12/29/24 12/29/24 0.0250 1 12/29/24 12/29/24 0.0250 1 12/29/24 12/29/24 1.6 % 70-130 12/29/24 12/29/24 mg/kg Analyst: SL 20.0 1 12/29/24 12/29/24 2.6 % 70-130 12/29/24 12/29/24 mg/kg Analyst: NV 25.0 1 12/30/24 12/30/24



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 24-6 E412194-02

		2112174 02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/29/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24	
Toluene	ND	0.0250	1	12/29/24	12/29/24	
-Xylene	ND	0.0250	1	12/29/24	12/29/24	
o,m-Xylene	ND	0.0500	1	12/29/24	12/29/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		111 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453009
Chloride	108	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 25-6 E412194-03

	E-11217-1-05				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	mg/kg Analyst: SL			Batch: 2453002
ND	0.0250	1	12/29/24	12/30/24	
ND	0.0250	1	12/29/24	12/30/24	
ND	0.0250	1	12/29/24	12/30/24	
ND	0.0250	1	12/29/24	12/30/24	
ND	0.0500	1	12/29/24	12/30/24	
ND	0.0250	1	12/29/24	12/30/24	
	90.3 %	70-130	12/29/24	12/30/24	
mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2453002
ND	20.0	1	12/29/24	12/30/24	
	92.9 %	70-130	12/29/24	12/30/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453008
ND	25.0	1	12/30/24	12/30/24	
ND	50.0	1	12/30/24	12/30/24	
	119 %	50-200	12/30/24	12/30/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2453009
230	20.0	1	12/30/24	12/30/24	
	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 MD 0.0250 MD 20.0 92.9 % mg/kg MD 25.0 ND 50.0 119 % mg/kg mg/kg mg/kg	mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 90.3 % 70-130 mg/kg mg/kg Ana ND 20.0 1 92.9 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 119 % 50-200 mg/kg Mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0500 1 12/29/24 ND 0.0250 1 12/29/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/29/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/30/24 ND 25.0 1 12/30/24 ND 50.0 1 12/30/24 ND 50.0 1 12/30/24 mg/kg mg/kg Analyst: DT	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/29/24 12/30/24 ND 0.0250 1 12/29/24 12/30/24 ND 0.0250 1 12/29/24 12/30/24 ND 0.0500 1 12/29/24 12/30/24 ND 0.0250 1 12/29/24 12/30/24 ND 0.0250 1 12/29/24 12/30/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/29/24 12/30/24 mg/kg mg/kg Analyst: SL 12/29/24 12/30/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/29/24 12/30/24 ND 25.0 1 12/30/24 12/30/24 12/30/24 ND 50.0 1 12/30/24 12/30/24 12/30/24 ND 50.0 1 12/30/24 <td< td=""></td<>



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 26-6 E412194-04

		E-11217-0-				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg Analyst: SL			Batch: 2453002		
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: SL			Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		116 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2453009
Chloride	211	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 27-6

		E412194-05				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		89.3 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		109 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453009
Chloride	114	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 28-6

E412194-06								
	Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453002		
Benzene	ND	0.0250	1	12/29/24	12/30/24			
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24			
Toluene	ND	0.0250	1	12/29/24	12/30/24			
o-Xylene	ND	0.0250	1	12/29/24	12/30/24			
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24			
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24			
Surrogate: 4-Bromochlorobenzene-PID		88.9 %	70-130	12/29/24	12/30/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453002		
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	12/29/24	12/30/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453008		
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24			
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24			
Surrogate: n-Nonane		110 %	50-200	12/30/24	12/31/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453009		
Chloride	111	20.0	1	12/30/24	12/30/24			



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 29-6

E412194-07						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		88.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		116 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2453009
Chloride	640	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 30-6 E412194-08

		2.121> . 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		88.2 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		115 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453009
Chloride	630	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 31-12

		E412194-09					
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453002	
Benzene	ND	0.0250	1	12/29/24	12/30/24		
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24		
Toluene	ND	0.0250	1	12/29/24	12/30/24		
p-Xylene	ND	0.0250	1	12/29/24	12/30/24		
o,m-Xylene	ND	0.0500	1	12/29/24	12/30/24		
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24		
Surrogate: 4-Bromochlorobenzene-PID		87.7 %	70-130	12/29/24	12/30/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2453002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	12/29/24	12/30/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2453008	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24		
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24		
Surrogate: n-Nonane		116 %	50-200	12/30/24	12/31/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453009	
Chloride	209	20.0	1	12/30/24	12/30/24		



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 32-12

E412194-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		85.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		119 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2453009
Chloride	216	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 33-6 E412194-11

		E412194-11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		85.1 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		119 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2453009
Chloride	107	20.0	1	12/30/24	12/30/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

SP Comp 34-2 E412194-12

		E412194-12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453002
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		84.6 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453002
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2453008
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		122 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2453009
Chloride	231	20.0	1	12/30/24	12/30/24	



West Mount A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 12/31/2024 1:02:03PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2453002-BLK1) Prepared: 12/29/24 Analyzed: 12/29/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.10 8.00 88.7 70-130 LCS (2453002-BS1) Prepared: 12/29/24 Analyzed: 12/30/24 5.37 107 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.21 0.0250 5.00 104 70-130 5.32 0.0250 5.00 106 70-130 Toluene 104 o-Xylene 5.18 0.0250 5.00 70-130 10.6 10.0 106 70-130 0.0500 p.m-Xvlene 105 70-130 15.8 15.0 Total Xylenes 0.0250 8.00 91.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.32 Source: E412193-04 Matrix Spike (2453002-MS1) Prepared: 12/29/24 Analyzed: 12/30/24 5.14 0.0250 5.00 ND 54-133 Benzene ND 99.7 61-133 Ethylbenzene 4.98 0.0250 5.00 Toluene 5.10 0.0250 5.00 ND 102 61-130 4.93 ND 98.6 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.2 0.0500 10.0 ND 102 63-131 15.1 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.02 8.00 Matrix Spike Dup (2453002-MSD1) Source: E412193-04 Prepared: 12/29/24 Analyzed: 12/29/24 4.76 0.0250 5.00 ND 95.2 54-133 7.68 20 61-133 4.61 0.0250 5.00 ND 92.3 7.70 20 Ethylbenzene 61-130 Toluene 4 71 0.0250 5.00 ND 94 2 7.88 20 4.59 5.00 ND 91.8 63-131 7.11 20 o-Xylene 0.0250 9.38 10.0 ND 93.8 63-131 7.94 20 p,m-Xylene 0.0500 Total Xylenes 14.0 0.0250 15.0 ND 93.2 63-131 7.67 20

8.00

94.1

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.53

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

Artesia NM, 88210		Project Manage		talie Gladden	ı			12/	31/2024 1:02:03PI
	Non	halogenated	Organics l	oy EPA 801	15D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2453002-BLK1)							Prepared: 1	2/29/24 Ana	lyzed: 12/29/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			
LCS (2453002-BS2)							Prepared: 1	2/29/24 Ana	lyzed: 12/30/24
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			
Matrix Spike (2453002-MS2)				Source:	E412193-	04	Prepared: 1	2/29/24 Ana	lyzed: 12/30/24
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			
Matrix Spike Dup (2453002-MSD2)				Source:	E412193-	04	Prepared: 1	2/29/24 Ana	lyzed: 12/30/24
Gasoline Range Organics (C6-C10)	40.2	20.0	50.0	ND	80.3	70-130	8.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			



Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 1:02:03PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			12	2/31/2024 1:02:03P
	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 (2453008-BLK1)							Prepared: 1	2/30/24 An	alyzed: 12/30/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.8		50.0		116	50-200			
LCS (2453008-BS1)							Prepared: 1	2/30/24 An	alyzed: 12/30/24
Diesel Range Organics (C10-C28)	286	25.0	250		114	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			
Matrix Spike (2453008-MS1)				Source:	E412194-	01	Prepared: 1	2/30/24 An	alyzed: 12/30/24
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			
Matrix Spike Dup (2453008-MSD1)				Source:	E412194-	01	Prepared: 1	2/30/24 An	alyzed: 12/30/24
Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132	2.84	20	
Surrogate: n-Nonane	58.8		50.0		118	50-200			



Chloride

QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager	20	Vest Mount A 0046-0001 atalie Gladder	1			12/	Reported: //31/2024 1:02:03PM
,				300.0/9056 <i>A</i>	<u>\</u>				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 (2453009-BLK1)							Prepared: 1	2/30/24 Ana	lyzed: 12/30/24
Chloride	ND	20.0							
LCS (2453009-BS1)							Prepared: 1	2/30/24 Ana	lyzed: 12/30/24
Chloride	251	20.0	250		100	90-110			
LCS Dun (2453009-BSD1)							Prepared: 1	2/30/24 Ana	lyzed: 12/30/24

250

20.0

105

90-110

4.14

262

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 A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/24 13:02

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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TAT **EPA Program** Lab Use Only Bill To Client: MACK GNEIGH Attention: ENERGY STAFFING SERVICES 3D Standard **CWA SDWA** Job Number 1D 2D Project: NEST MOUNT 20046-000 Address: 2724 NW COUNTY RD Project Manager: **RCRA** City, State, Zip HOBBS, NM 88240 Analysis and Method Address: Phone: 575-393-9048 City, State, Zip State Email: NATALIE@ENERGYSTAFFINGLLC.COM GRO/DRO by 8015 Phone: UT AZ 300.0 Email: BRITTNEY@ENERGYSTAFFINGLLC.COM BTEX by 8021 VOC by 8260 Metals 6010 Report due by: Chloride 3 BGDOC Lab Remarks Time Date No of Sample ID Matrix Containers Number Sampled Sampled 5 8 Additional Instructions: Samples requiring thermal preservation must be received on ice the day they are sampled or received I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Sampled by: ANAM date or time of collection is considered fraud and may be grounds for legal action. Lab Use Only Received by Relinquished by: (Signature) Received on ice: TUNOXO Relinquished by: (Signature) Relinquished by: (Signature) AVG Temp °C Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Chain of Custody



anti ca di Careta	Bill To				La	b Us	e On	ly			TAT		EPA P	rogram
ent: Macy Energy Dject: WUST MUNT A	Attention: ENERGY STAFFING SERVI	CES	Lab	WO#			Joh I	Number	1D	2D	3D S	tandard	CWA	SDWA
oject Manager:	Address: 2724 NW COUNTY RD		EL	WO#	194	1	20	y 6.000 l	1000	X				
dress:	City, State, Zip HOBBS, NM 88240						Analy	sis and Method					1	RCRA
y, State, Zip	Phone: 575-393-9048		1										Chata	
one:	Email: NATALIE@ENERGYSTAFFINGLLC	C.COM_	by 8015	015								NM CO	State UT AZ	TTYT
ail:	BRITTNEY@ENERGYSTAFFINGLI	.C.COM	by 8	by 8	021	09	10	0.00.0	Σ	×		NIVI CO	OI AZ	11/
port due by:		Lab	ORO	DRO	by 8	3y 82	ls 60	ge		1000		XI		
Time Date Matrix No. of Containers Sample II		Lab Number	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC			Remarks	
142/4 S) SDCON	w33-6	11							X					
1923/4 5 1 5000	p33-6	12							X					
The state of the s	ruh 2:	10							1					
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		A TOTAL												
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			4		_		_		_					
ditional Instructions:														
ield camples) attest to the validity and authenticity of this s	mple. I am aware that tampering with or intentionally mislaballing	TR the sampl	e locat	ion,	_		Sampl	les requiring thermal	reserv	ation mu	st be receiv	ed on ice the day	they are samp	pled or receive
e or time of collection is considered fraud and may be groun	Hally	onga					packe	d in ice at an avg tem	above	e 0 but le	ss than 6 °C	on subsequent d	ays.	
inquished by: (Signature) Date		Qate		Time		7		1			se Only			
MAN LINGE 12/23/24		1227	,24	1:	200	0	Rec	eived on ice:	1	V/ N				
inquished by: (Signature) Date	Time (A) Received by: (Signature)	Date		Time		, ,			-					
		12-17	-29	11	7:3	4	T1		<u>T2</u>				-	
linquished by: (Signature) Date	fime Received by: (Signature)	Date	1,1	Time	60				1					
	1 Mittle Haw	Containe	4		00			G Temp °C	1					-



Printed: 12/29/2024 11:06:39AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

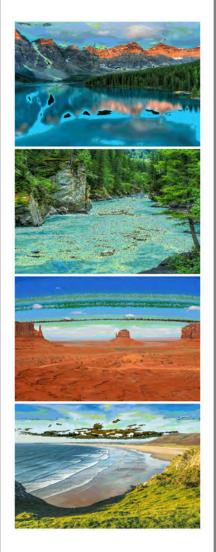
Instructions: Please take note of any NO checkmarks.

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.

	Maak Enouge	D . D . 1	10/20/24 07			E4404
Client:		Date Received:	12/30/24 07		Work Order ID:	E412194
Phone:		Date Logged In:	12/29/24 11		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	12/31/24 17	7:00 (1 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
	he number of samples per sampling site location match	h the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No			
5. Were a	Il samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in t				Commen	ts/Resolution
	i.e, 15 minute hold time, are not included in this disucssion	.		ı	<u>commen</u>	15/ ICSOIDTION
	Furn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and tir	ne sampled not
	•		108		provided on COC.	
Sample C	sample cooler received?		Yes		provided on COC.	
	was cooler received in good condition?		Yes			
• .	<u> </u>					
	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
•	, were custody/security seals intact?		NA			
12. Was th	ne 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		Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°C	<u> </u>			
Sample (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?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field Lal						
	field sample labels filled out with the minimum information ID2	mation:	V			
	ample ID? eate/Time Collected?		Yes	l		
	follectors name?		Yes No			
Sample I	Preservation_		110			
	the COC or field labels indicate the samples were pre-	served?	No			
22. Are s	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved me	etals?	No			
Multipha	ase 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			
Subconti	ract Laboratory					
	amples required to get sent to a subcontract laboratory	79	No			
	a subcontract laboratory specified by the client and if s			Subcontract Lab	o: NA	
Client I	nstruction_					

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 A

Work Order: E412195

Job Number: 20046-0001

Received: 12/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/31/24

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: 12/31/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E412195

Date Received: 12/30/2024 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/30/2024 7:00:00AM, under the Project Name: West Mount A.

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

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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 A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/24 14:06

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
SP Comp 35-2	E412195-01A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 36-2	E412195-02A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 37-2	E412195-03A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 38-2	E412195-04A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 39-2	E412195-05A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 40-6	E412195-06A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 41-6	E412195-07A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 42-6	E412195-08A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 43-6	E412195-09A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 44-12	E412195-10A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 45-12	E412195-11A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 46-12	E412195-12A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 47-4	E412195-13A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 48-4	E412195-14A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 49-4	E412195-15A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.
SP Comp 50-4	E412195-16A	Soil	12/26/24	12/30/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 35-2 E412195-01

	21121/0 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2453003
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0500	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
	86.8 %	70-130	12/29/24	12/29/24	
mg/kg	mg/kg	Analy	st: SL		Batch: 2453003
ND	20.0	1	12/29/24	12/29/24	
	94.9 %	70-130	12/29/24	12/29/24	
mg/kg	mg/kg	Analy	st: NV		Batch: 2453007
ND	25.0	1	12/30/24	12/30/24	
ND	50.0	1	12/30/24	12/30/24	
	110 %	50-200	12/30/24	12/30/24	
mg/kg	mg/kg	Analy	st: DT		Batch: 2453010
	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 ND 0.0250 86.8 % mg/kg MD 20.0 94.9 % mg/kg ND 25.0 ND 50.0 110 %	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 86.8 % 70-130 mg/kg mg/kg Analy ND 20.0 1 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 110 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0500 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/29/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/30/24 ND 50.0 1 12/30/24 ND 50.0 1 12/30/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 ND 0.0500 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/29/24 12/29/24 mg/kg mg/kg Analyst: SL 1 12/29/24 12/29/24 mg/kg mg/kg Analyst: NV 1 12/29/24 12/29/24 ND 25.0 1 12/30/24 12/30/24 12/30/24 ND 50.0 1 12/30/24 12/30/24 12/30/24 ND 50.0 1 12/30/24 12/30/24



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 36-2 E412195-02

	L+121/3 02				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003
ND	0.0500	2	12/29/24	12/29/24	
ND	0.0500	2	12/29/24	12/29/24	
ND	0.0500	2	12/29/24	12/29/24	
ND	0.0500	2	12/29/24	12/29/24	
ND	0.100	2	12/29/24	12/29/24	
ND	0.0500	2	12/29/24	12/29/24	
	86.7 %	70-130	12/29/24	12/29/24	
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003
ND	40.0	2	12/29/24	12/29/24	
	95.8 %	70-130	12/29/24	12/29/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453007
ND	25.0	1	12/30/24	12/30/24	
ND	50.0	1	12/30/24	12/30/24	
	98.5 %	50-200	12/30/24	12/30/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2453010
187	20.0	1	12/30/24	12/31/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0500 ND 0.0500 ND 0.0500 ND 0.100 ND 0.0500 MD 0.0500 86.7 % mg/kg mg/kg mg/kg ND 40.0 95.8 % mg/kg ND 25.0 ND 50.0 98.5 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0500 2 ND 0.0500 2 ND 0.0500 2 ND 0.100 2 ND 0.0500 2 ND 0.0500 2 MD 40.00 2 95.8 % 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 98.5 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg Manalyst: SL ND 0.0500 2 12/29/24 ND 0.0500 2 12/29/24 ND 0.0500 2 12/29/24 ND 0.0500 2 12/29/24 ND 0.100 2 12/29/24 ND 0.0500 2 12/29/24 mg/kg mg/kg Analyst: SL ND 40.0 2 12/29/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/29/24 ND 50.0 1 12/30/24 ND 50.0 1 12/30/24 Mg/kg mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0500 2 12/29/24 12/29/24 ND 0.100 2 12/29/24 12/29/24 ND 0.0500 2 12/29/24 12/29/24 mg/kg mg/kg Analyst: SL ND 40.0 2 12/29/24 12/29/24 mg/kg mg/kg Analyst: SL 12/29/24 12/29/24 ND 40.0 2 12/29/24 12/29/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/30/24 12/30/24 ND 50.0 1 12/30/24 12/30/24 12/30/24 Mg/kg mg/kg Analyst:



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 37-2 E412195-03

		E-112173-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/29/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24	
Foluene	ND	0.0250	1	12/29/24	12/29/24	
o-Xylene	ND	0.0250	1	12/29/24	12/29/24	
o,m-Xylene	ND	0.0500	1	12/29/24	12/29/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24	
Surrogate: 4-Bromochlorobenzene-PID		85.4 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		99.5 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2453010
Chloride	328	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 38-2 E412195-04

		E412195-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/29/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24	
Toluene	ND	0.0250	1	12/29/24	12/29/24	
o-Xylene	ND	0.0250	1	12/29/24	12/29/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/29/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24	
Surrogate: 4-Bromochlorobenzene-PID		86.3 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		106 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453010
Chloride	332	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 39-2 E412195-05

		E412175 05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/29/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24	
Toluene	ND	0.0250	1	12/29/24	12/29/24	
o-Xylene	ND	0.0250	1	12/29/24	12/29/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/29/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24	
Surrogate: 4-Bromochlorobenzene-PID		85.5 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		98.9 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453010
Chloride	195	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 40-6

E412195-06							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453003	
Benzene	ND	0.0250	1	12/29/24	12/29/24		
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24		
Toluene	ND	0.0250	1	12/29/24	12/29/24		
o-Xylene	ND	0.0250	1	12/29/24	12/29/24		
p,m-Xylene	ND	0.0500	1	12/29/24	12/29/24		
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24		
Surrogate: 4-Bromochlorobenzene-PID		84.8 %	70-130	12/29/24	12/29/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	12/29/24	12/29/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453007	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24		
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24		
Surrogate: n-Nonane		107 %	50-200	12/30/24	12/30/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453010	
Chloride	194	20.0	1	12/30/24	12/31/24		



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 41-6 E412195-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/29/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24	
Toluene	ND	0.0250	1	12/29/24	12/29/24	
o-Xylene	ND	0.0250	1	12/29/24	12/29/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/29/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24	
Surrogate: 4-Bromochlorobenzene-PID		84.8 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		109 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2453010
Chloride	288	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 42-6 E412195-08

		L-1121/3 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/29/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/29/24	
Toluene	ND	0.0250	1	12/29/24	12/29/24	
-Xylene	ND	0.0250	1	12/29/24	12/29/24	
o,m-Xylene	ND	0.0500	1	12/29/24	12/29/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/29/24	
Surrogate: 4-Bromochlorobenzene-PID		85.3 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	12/29/24	12/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		110 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453010
Chloride	264	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 43-6 E412195-09

	L4121/3 0/				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2453003
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
ND	0.0500	1	12/29/24	12/29/24	
ND	0.0250	1	12/29/24	12/29/24	
	84.1 %	70-130	12/29/24	12/29/24	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2453003
ND	20.0	1	12/29/24	12/29/24	
	95.9 %	70-130	12/29/24	12/29/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2453007
ND	25.0	1	12/30/24	12/30/24	
ND	50.0	1	12/30/24	12/30/24	
	106 %	50-200	12/30/24	12/30/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2453010
260	20.0	1	12/30/24	12/31/24	
	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 0.0500 ND 0.0250 84.1 % mg/kg mg/kg mg/kg ND 20.0 95.9 % mg/kg ND 25.0 ND 50.0 106 % 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 84.1 % 70-130 mg/kg mg/kg Anal ND 20.0 1 95.9 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 106 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Analyst: SL ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0250 1 12/29/24 ND 0.0500 1 12/29/24 ND 0.0250 1 12/29/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/29/24 mg/kg mg/kg Analyst: NV ND 25.9 % 70-130 12/29/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/30/24 ND 50.0 1 12/30/24 ND 50.0 1 12/30/24 mg/kg mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 ND 0.0500 1 12/29/24 12/29/24 ND 0.0500 1 12/29/24 12/29/24 ND 0.0250 1 12/29/24 12/29/24 Mg/kg mg/kg Analyst: SL ND 12/29/24 12/29/24 mg/kg mg/kg Analyst: SL ND 12/29/24 12/29/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/29/24 12/29/24 ND 25.0 1 12/30/24 12/30/24 12/30/24 ND 50.0 1 12/30/24 12/30/24 ND 50.0 1 12/30/24 12/30/2



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 44-12

E412195-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		83.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		106 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2453010



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 45-12

E412195-11

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		83.4 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/30/24	
Surrogate: n-Nonane		105 %	50-200	12/30/24	12/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2453010
Chloride	247	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 46-12

E412195-12

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		84.0 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		111 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453010
Chloride	227	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 47-4

E412195-13						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		84.1 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		108 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2453010
Chloride	354	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 48-4

E412195-14						
Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453003
Benzene	ND	0.0250	1	12/29/24	12/30/24	
Ethylbenzene	ND	0.0250	1	12/29/24	12/30/24	
Toluene	ND	0.0250	1	12/29/24	12/30/24	
o-Xylene	ND	0.0250	1	12/29/24	12/30/24	
p,m-Xylene	ND	0.0500	1	12/29/24	12/30/24	
Total Xylenes	ND	0.0250	1	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		83.7 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		113 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2453010
Chloride	323	20.0	1	12/30/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 49-4

E412195-15							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003	
Benzene	ND	0.0500	2	12/29/24	12/30/24		
Ethylbenzene	ND	0.0500	2	12/29/24	12/30/24		
Toluene	ND	0.0500	2	12/29/24	12/30/24		
o-Xylene	ND	0.0500	2	12/29/24	12/30/24		
p,m-Xylene	ND	0.100	2	12/29/24	12/30/24		
Total Xylenes	ND	0.0500	2	12/29/24	12/30/24		
Surrogate: 4-Bromochlorobenzene-PID		82.7 %	70-130	12/29/24	12/30/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003	
Gasoline Range Organics (C6-C10)	ND	40.0	2	12/29/24	12/30/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	12/29/24	12/30/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453007	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24		
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24		
Surrogate: n-Nonane		110 %	50-200	12/30/24	12/31/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2453010	
Chloride	194	20.0	1	12/30/24	12/31/24		



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

SP Comp 50-4

		E412195-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453003
Benzene	ND	0.0500	2	12/29/24	12/30/24	
Ethylbenzene	ND	0.0500	2	12/29/24	12/30/24	
Toluene	ND	0.0500	2	12/29/24	12/30/24	
o-Xylene	ND	0.0500	2	12/29/24	12/30/24	
p,m-Xylene	ND	0.100	2	12/29/24	12/30/24	
Total Xylenes	ND	0.0500	2	12/29/24	12/30/24	
Surrogate: 4-Bromochlorobenzene-PID		82.8 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2453003
Gasoline Range Organics (C6-C10)	ND	40.0	2	12/29/24	12/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	12/29/24	12/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453007
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/24	12/31/24	
Surrogate: n-Nonane		117 %	50-200	12/30/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2453010
Chloride	184	20.0	1	12/30/24	12/31/24	



QC Summary Data

West Mount A Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 12/31/2024 2:06:28PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2453003-BLK1) Prepared: 12/29/24 Analyzed: 12/29/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 6.78 8.00 84.7 70-130 LCS (2453003-BS1) Prepared: 12/29/24 Analyzed: 12/30/24 4.74 94.8 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.60 0.0250 5.00 92.0 70-130 4.70 0.0250 5.00 94.0 70-130 Toluene 90.8 o-Xylene 4.54 0.0250 5.00 70-130 9.37 10.0 93.7 70-130 0.0500 p.m-Xvlene 78.9 11.8 15.0 70-130 Total Xylenes 0.0250 8.00 82.0 70-130 Surrogate: 4-Bromochlorobenzene-PID 6.56 Source: E412195-02 Matrix Spike (2453003-MS1) Prepared: 12/29/24 Analyzed: 12/30/24 9.16 0.0500 10.0 ND 91.6 54-133 Benzene ND 61-133 Ethylbenzene 8.88 0.0500 10.0 88.8 Toluene 9.06 0.0500 10.0 ND 90.6 61-130 8.76 ND 87.6 63-131 10.0 0.0500 o-Xylene p,m-Xylene 18.1 0.100 20.0 ND 90.3 63-131 26.8 0.0500 30.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 13.4 16.0 Matrix Spike Dup (2453003-MSD1) Source: E412195-02 Prepared: 12/29/24 Analyzed: 12/29/24 11.1 0.0500 10.0 ND 111 54-133 19.3 20 61-133 19.2 10.8 0.0500 10.0 ND 108 20 Ethylbenzene 61-130 Toluene 11.0 0.0500 10.0 ND 110 19.2 20 10.7 0.0500 10.0 ND 107 63-131 19.6 20 o-Xylene

20.0

30.0

16.0

0.100

0.0500

ND

ND

109

108

86.5

63-131

63-131

70-130

19.0

19.2

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

21.9

32.5

13.8

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			12	/31/2024 2:06:28PM		
Nonhalogenated Organics by EPA 8015D - GRO Analyst: SL											
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
	mg/kg	mg/kg	mg/kg	mg/kg	70	70					
Blank (2453003-BLK1)							Prepared: 1	2/29/24 Ana	lyzed: 12/29/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130					
LCS (2453003-BS2)							Prepared: 1	: 12/29/24 Analyzed: 12/29/24			
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130					
Matrix Spike (2453003-MS2)				Source:	E412195-	02	Prepared: 1	2/29/24 Ana	lyzed: 12/30/24		
Gasoline Range Organics (C6-C10)	92.4	40.0	100	ND	92.4	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	16.2		16.0		101	70-130					
Matrix Spike Dup (2453003-MSD2)				Source:	E412195-	02	Prepared: 1	2/29/24 Ana	llyzed: 12/30/24		
Gasoline Range Organics (C6-C10)	86.0	40.0	100	ND	86.0	70-130	7.19	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	16.0		16.0		99.8	70-130					



QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/2024 2:06:28PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			1	2/31/2024 2:06:28P
	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 (2453007-BLK1)							Prepared: 1	2/30/24 An	nalyzed: 12/30/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	53.3		50.0		107	50-200			
LCS (2453007-BS1)							Prepared: 1	2/30/24 An	nalyzed: 12/30/24
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
urrogate: n-Nonane	52.8		50.0		106	50-200			
Matrix Spike (2453007-MS1)				Source:	E412195-	04	Prepared: 1	2/30/24 An	nalyzed: 12/30/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
urrogate: n-Nonane	50.9		50.0		102	50-200			
Matrix Spike Dup (2453007-MSD1)				Source:	E412195-	04	Prepared: 1	2/30/24 An	nalyzed: 12/30/24
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132	1.08	20	
'urrogate: n-Nonane	52.3		50.0		105	50-200			



LCS Dup (2453010-BSD1)

Chloride

Prepared: 12/30/24 Analyzed: 12/31/24

20

QC Summary Data

Mack Energy		Project Name: Project Number:		Vest Mount A 0046-0001					Reported:
7 W. Compress Road Artesia NM, 88210		Project Manager		atalie Gladder	1			1	2/31/2024 2:06:28PM
		Anions	by EPA	300.0/9056	4				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 (2453010-BLK1)							Prepared: 1	2/30/24 Ar	nalyzed: 12/31/24
Chloride	ND	20.0							
LCS (2453010-BS1)							Prepared: 1	2/30/24 Ar	nalyzed: 12/31/24
Chloride	256	20.0	250		102	90-110			

250

20.0

103

90-110

0.252

257

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 A	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	12/31/24 14:06

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.



Received by OCD: 5/13/2025 2:10:05 PM

	1		2
Page _	1	_ of _	_

Client: Macci Lacing Bill To Attention: ENERGY STAFFING SERVICES Attention: ENERGY STAFFING SERVICES							La	ab Use	Ise Only			TAT				EPA P	rogram				
Project.	11151	Meller	+AH		Atte	ention: ENERGY STA	AFFING SERVI	CES	Lab 1	WO#	_	-	Job Number ,		er ,	1D	2D,	3D	Standard	CWA	SDWA
Project N	lanager:	, -0			Add	ress: 2724 NW COU	JNTY RD		E	WO#	95		200	460	0001		X			1 - 1	
Address:					City	, State, Zip HOBE	BS, NM 88240					7	Analy	sis an	d Metho	d	,			1	RCRA
City, Stat					100	ne: 575-393-9048												7			
Phone:					Em	ail: NATALIE@ENERC	GYSTAFFINGLLO	C.COM	115	115										State	
Email: BRITTNEY@ENERGY					TO THE R. P. LEWIS CO., LANSING		9 8 K	21	0	0	0.00		Σ×			NM CO	UT AZ	TX			
Report d	ue by:					3490430			ROb	ROE	y 80	826	601	le 30			¥		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		ВСБОС	верос		,	Remarks	
	nhyly	5		Spamp?	35 -	2										X					
	_	1	1	Speamp				2								1					
				Speany				3													
			1/	Spanp				4													
				Sprom	39-	2		5													
				Speamo	40-	9		6													
				Spromp		6		7													
			1	Spann		Le		8													
			1	Speamo		4		9													
	17/21/29	S	1	50 com 10		1		10								X					
Addition	nal Instruc		1.1	12/2017	-						1		-								
				ticity of this sample. may be grounds for I		that tampering with or inte Sampled by:	ntionally mislabelli AVJy	ng the sampl	e locat	ion,									ived on ice the day 'C on subsequent d		led or receiv
Relinquish	ned by: (Sign	ature)	Date	Time		Received by (Signatur	e)	Date 12:21	24	Time	20	0	Rec	eived	on ice:			ise Only	У		-
Refinituisfiedby: (Signature) Date Date Date Received by: (Signature)					12-2	7-24	Time /	7:3	34	T1			<u>T2</u>			<u>T3</u>					
Relinquish	ned by: (Sign	ature)	Date	e Time		Received by Signatur	Ma -	Date 12:30	24	Time 7	100)	AVO	5 Tem	ip°C_	4					
Sample Ma	trix: S - Soil. S	d - Solid, Sg	- Sludge, A	Aqueous, O - Other _		ailly	jaun	Containe	r Typ	e: g -	glass	, p - p	oly/p	lastic,	ag - am	ber gla	355, V	- VOA			
Note: San	ples are dis	carded 30	days after re	esults are reported	d unless ot	ner arrangements are ma ith this COC. The liability	of the laboratory	amples wil	l be re	turne	d to c	lient o	r disp	osed o	f at the cl	ient ex	pense	. The re	port for the ar	alysis of the	above
samples I	аррисаціе	only to the	ac antiples	received by the lat	ostatory w	ma coc. the hadility			-,,,,		p.o.		_					•			



Page	2	of	2

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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

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Received by OCD: 5/13/2025 2:10:05 PM

Printed: 12/29/2024 11:12:03AM

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:	12/30/24 07:	00		Work Order ID:	E412195
Phone:	(575) 390-6397	Date Logged In:	12/29/24 11:	10		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	12/31/24 17:	:00 (1 day TAT)			
~	a . 1 (60 f)						
	Custody (COC)						
	e sample ID match the COC?	tab the COC	Yes				
	e number of samples per sampling site location ma imples dropped off by client or carrier?	ich the COC	Yes	a . a			
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes No	Carrier: <u>C</u>	ourier		
	I samples received within holding time?	sted analyses:	Yes				
5.	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssit		100	_		Comment	s/Resolution
Sample T	urn Around Time (TAT)				D		
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			_	ne sampled not
Sample C					provided or	n COC.	
	ample cooler received?		Yes				
	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	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				
Sample C		temperature. 1	<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				
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				
Field Lab	<u>el</u>						
	field sample labels filled out with the minimum info	ormation:	37				
	umple ID? ate/Time Collected?		Yes	L			
	ollectors name?		Yes No				
Sample P	reservation_		110				
21. Does	the 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	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				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA S	ubcontract Lab	: NA		
Client In	struction						
							0

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 A

Work Order: E412199

Job Number: 20046-0001

Received: 12/31/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/2/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/2/25

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E412199

Date Received: 12/31/2024 7:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/31/2024 7:15:00AM, under the Project Name: West Mount A.

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

ſ	Mack Energy	Project Name:	West Mount A	Reported:
l	7 W. Compress Road	Project Number:	20046-0001	Reporteu:
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	01/02/25 13:36

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SP Comp 51-4	E412199-01A Soil	12/27/24	12/31/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:36:03PM

SP Comp 51-4 E412199-01

	21121// 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst: SL			Batch: 2453029
ND	0.0250	1	12/31/24	12/31/24	
ND	0.0250	1	12/31/24	12/31/24	
ND	0.0250	1	12/31/24	12/31/24	
ND	0.0250	1	12/31/24	12/31/24	
ND	0.0500	1	12/31/24	12/31/24	
ND	0.0250	1	12/31/24	12/31/24	
	93.4 %	70-130	12/31/24	12/31/24	
mg/kg	mg/kg	Analyst: SL			Batch: 2453029
ND	20.0	1	12/31/24	12/31/24	
	87.0 %	70-130	12/31/24	12/31/24	
mg/kg	mg/kg	Analy	Analyst: NV		Batch: 2453031
ND	25.0	1	12/31/24	12/31/24	
ND	50.0	1	12/31/24	12/31/24	
	108 %	50-200	12/31/24	12/31/24	
mg/kg	mg/kg	Analy	vst: DT		Batch: 2453033
	mg/kg ND 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 87.0 % mg/kg ND 25.0 ND 50.0 108 %	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 0.0250 1 MB/kg mg/kg Analy ND 20.0 1 MB/kg mg/kg Analy ND 25.0 1 ND 50.0 1 108 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 12/31/24 ND 0.0250 1 12/31/24 ND 0.0250 1 12/31/24 ND 0.0500 1 12/31/24 ND 0.0250 1 12/31/24 ND 0.0250 1 12/31/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/31/24 mg/kg mg/kg Analyst: NV ND 25.0 1 12/31/24 ND 25.0 1 12/31/24 ND 50.0 1 12/31/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 12/31/24 12/31/24 ND 0.0500 1 12/31/24 12/31/24 ND 0.0250 1 12/31/24 12/31/24 mg/kg mg/kg Analyst: SL ND 20.0 1 12/31/24 12/31/24 mg/kg mg/kg Analyst: SL 1 12/31/24 12/31/24 mg/kg mg/kg Analyst: NV 1 12/31/24 12/31/24 ND 25.0 1 12/31/24 12/31/24 ND 50.0 1 12/31/24 12/31/24 ND 50.0 1 12/31/24 12/31/24



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy 7 W. Compress Road	Project Name: Project Number:	West Mount A 20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:36:03PM

Artesia NM, 88210		Project Manager		atalie Gladden				1	/2/2025 1:36:03PM
		Volatile (Volatile Organics by EPA 8021B					Analyst: SL	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2453029-BLK1)							Prepared: 1	2/31/24 Ana	lyzed: 12/31/24
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	7.07		8.00		88.4	70-130			
LCS (2453029-BS1)							Prepared: 1	2/31/24 Ana	lyzed: 12/31/24
Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			
LCS Dup (2453029-BSD1)							Prepared: 1	2/31/24 Ana	lyzed: 12/31/24
Benzene	5.32	0.0250	5.00		106	70-130	2.10	20	
Ethylbenzene	5.20	0.0250	5.00		104	70-130	2.12	20	
Toluene	5.29	0.0250	5.00		106	70-130	1.97	20	
o-Xylene	5.18	0.0250	5.00		104	70-130	2.14	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	2.16	20	
Total Xylenes	15.8	0.0250	15.0		105	70-130	2.16	20	



Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:36:03PM

Artesia NM, 88210		Project Number: Project Manager:		atalie Gladden				1/2	/2025 1:36:03PM
	Non	halogenated C	Organics	by EPA 801	5D - G]	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2453029-BLK1)							Prepared: 12	2/31/24 Analy	vzed: 12/31/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			
LCS (2453029-BS2)							Prepared: 12	2/31/24 Analy	zed: 12/31/24
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			
LCS Dup (2453029-BSD2)							Prepared: 12	2/31/24 Analy	zed: 12/31/24
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		92.9	70-130	3.68	20	

70-130

7.15

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:36:03PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1				1/2/2025 1:36:03PM	
Nonhalogenated Organics by EPA 8015D - 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 (2453031-BLK1)							Prepared: 1	2/31/24 Ar	alyzed: 12/31/24	
biesel Range Organics (C10-C28)	ND	25.0								
vil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	50.5		50.0		101	50-200				
CS (2453031-BS1)							Prepared: 1	2/31/24 Ar	alyzed: 12/31/24	
viesel Range Organics (C10-C28)	265	25.0	250		106	38-132				
urrogate: n-Nonane	52.0		50.0		104	50-200				
Matrix Spike (2453031-MS1)				Source:	E412198-	01	Prepared: 1	2/31/24 Ar	alyzed: 12/31/24	
viesel Range Organics (C10-C28)	586	25.0	250	311	110	38-132				
urrogate: n-Nonane	53.7		50.0		107	50-200				
Matrix Spike Dup (2453031-MSD1)				Source:	E412198-	01	Prepared: 1	2/31/24 Ar	alyzed: 12/31/24	
tiesel Range Organics (C10-C28)	569	25.0	250	311	103	38-132	2.87	20		
urrogate: n-Nonane	49.8		50.0		99.7	50-200				



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number Project Manager	: 20	est Mount A 0046-0001 atalie Gladden					Reported: 1/2/2025 1:36:03PM
		Anions	by EPA 3	00.0/9056A					Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2453033-BLK1)							Prepared: 12	2/31/24 Aı	nalyzed: 12/31/24
Chloride	ND	20.0							
LCS (2453033-BS1)							Prepared: 12	2/31/24 Aı	nalyzed: 12/31/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2453033-BSD1)							Prepared: 12	2/31/24 Aı	nalyzed: 12/31/24
Chloride	254	20.0	250		102	90-110	0.354	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 A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/02/25 13:36

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.



Project Information

Client: MPLU C-ruce Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALLE@ENERGYSTAFFINGLIC.COM BRITTNEY@ENERGYSTAFFINGLIC.COM Sampled Sa		rogram
Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLIC.COM BRITTNEY@ENERGYSTAFFINGLIC.COM Sampled Sa	CWA SE	SDWA
Analysis and Method City, State, Zip Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM Time Date Sampled Sa		
City, State, Zip Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM Time Date Sampled		RCRA
Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM Time Date Sampled		-
Email: Report due by: Time Date Sampled Samp	State	
Report due by: Time Date Sampled Sampled Sampled Matrix No of Containers Sample ID Lab Number W O W O W O W O W O W O W O W O W O W	UT AZ	TX
	Remarks	
12/27/24 5 1 Sp.comp51-4 1 X	Kemarks	4
A Little and Later and Lat		
Additional Instructions:		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location,	they are samp	aled or receive
date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Away Wive packed in ice at an avg temp above 0 but less than 6 °C on subsequent da	lays.	
Relinquished by: (Signature) Date Time Received by: (Signature) Date 1335 Received on ice: (Y) / N		
Time Time		
Wichelle Gongales 12-30-24 1630 1/c / 12-30-24 1630 T1 T2 T3		
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time		
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date 12/31/24 Time 1		
Sample Matrix: 9-Soil, Sq - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the client expense.	alysis of the	a 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.	and the same of the same	



envirotech Inc.

Printed: 12/31/2024 8:28:05AM

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:	12/31/24 07	·15		Work Order ID:	E412199
Phone:	(575) 390-6397		12/30/24 14			Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Date Logged In: Due Date:		7:00 (1 day TAT)		Logged III By.	Cartilli Mais
Eman.	ratane@energystamingne.com	Duc Date.	01/02/23 17	.00 (1 day 1741)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No	_			
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
Sample T	i.e, 15 minute hold time, are not included in this disucssidurn Around Time (TAT)	on.		ı		<u>commun</u>	5/1105014H011
	COC indicate standard TAT, or Expedited TAT?		Yes		Project m	anager and tin	ne sampled not
			103		provided	_	r
Sample C	ample cooler received?		Yes		provided	on coc.	
	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 the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar		Yes				
	minutes of sampling	c received w/r 15					
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°C	<u> </u>				
Sample C	ontainer						
	jueous 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				
Field Lab	<u>el</u>						
20. Were t	field sample labels filled out with the minimum info	ormation:					
	imple ID?		Yes				
	ate/Time Collected? ollectors name?		Yes	•			
	reservation		Yes				
	the COC or field labels indicate the samples were price.	reserved?	No				
	mple(s) correctly preserved?	reserved.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix		110				
	the sample waters:	se?	No				
	does the COC specify which phase(s) is to be analy		No NA				
•		yzcu.	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	-	No				
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA S	Subcontract Lab	: NA		
Client In	<u>struction</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 A

Work Order: E412200

Job Number: 20046-0001

Received: 12/31/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/2/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/2/25

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount A

Workorder: E412200

Date Received: 12/31/2024 7:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/31/2024 7:15:00AM, under the Project Name: West Mount A.

The analytical test results summarized in this report with the Project Name: West Mount A 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 A	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/02/25 13:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 1-10	E412200-01A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 2-10	E412200-02A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 3-4	E412200-03A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 4-10	E412200-04A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 5-10	E412200-05A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 6-14	E412200-06A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 7-14	E412200-07A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 8-12	E412200-08A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 9-12	E412200-09A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 10-8	E412200-10A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 11-8	E412200-11A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 12-8	E412200-12A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.
SW Comp 13-12	E412200-13A	Soil	12/27/24	12/31/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 1-10 E412200-01

		E-112200-01				
Analyte	Result	Reporting Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		94.5 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453033
Chloride	130	20.0	1	12/31/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 2-10

E412200-02

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		99.8 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453033
·	127	20.0		12/31/24	12/31/24	•



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 3-4 E412200-03

Notes Batch: 2453029
Batch: 2453029
Batch: 2453029
Batch: 2453031
Batch: 2453033



N	Mack Energy	Project Name:	West Mount A	
7	7 W. Compress Road	Project Number:	20046-0001	Reported:
I	Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 4-10

E412200-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		106 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2453033
				12/31/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 5-10

E412200-05							
Reporting							
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2453029	
Benzene	ND	0.0250	1	12/31/24	12/31/24		
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24		
Toluene	ND	0.0250	1	12/31/24	12/31/24		
o-Xylene	ND	0.0250	1	12/31/24	12/31/24		
o,m-Xylene	ND	0.0500	1	12/31/24	12/31/24		
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24		
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	12/31/24	12/31/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2453029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	70-130	12/31/24	12/31/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2453031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24		
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24		
Surrogate: n-Nonane		103 %	50-200	12/31/24	12/31/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2453033	
Chloride	119	20.0	1	12/31/24	12/31/24		



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 6-14

E412200-06

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		101 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453033
Chloride	122	20.0	1	12/31/24	12/31/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 7-14

E412200-07							
	D. I	Reporting		D 1		N	
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2453029	
Benzene	ND	0.0250	1	12/31/24	12/31/24		
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24		
Toluene	ND	0.0250	1	12/31/24	12/31/24		
o-Xylene	ND	0.0250	1	12/31/24	12/31/24		
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24		
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24		
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	12/31/24	12/31/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ai	nalyst: SL		Batch: 2453029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	12/31/24	12/31/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2453031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24		
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24		
Surrogate: n-Nonane		105 %	50-200	12/31/24	12/31/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ai	nalyst: DT		Batch: 2453033	

20.0

180

12/31/24

12/31/24



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 8-12

E412200-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		100 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2453033



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 9-12

E412200-09								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453029		
Benzene	ND	0.0250	1	12/31/24	12/31/24			
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24			
Toluene	ND	0.0250	1	12/31/24	12/31/24			
o-Xylene	ND	0.0250	1	12/31/24	12/31/24			
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24			
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24			
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	12/31/24	12/31/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453029		
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	12/31/24	12/31/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453031		
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24			
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24			
Surrogate: n-Nonane		102 %	50-200	12/31/24	12/31/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453033		
Chloride	184	20.0	1	12/31/24	12/31/24			



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 10-8 E412200-10

		E412200-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilution	Frepared	Analyzeu	rioles
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		99.3 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2453033
Chloride	178	20.0	1	12/31/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 11-8

E412200-11

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		97.3 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2453033
	209	20.0	-	12/31/24	12/31/24	



Mack Energy	Project Name:	West Mount A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 12-8

E412200-12								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2453029		
Benzene	ND	0.0250	1	12/31/24	12/31/24			
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24			
Toluene	ND	0.0250	1	12/31/24	12/31/24			
o-Xylene	ND	0.0250	1	12/31/24	12/31/24			
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24			
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24			
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	12/31/24	12/31/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2453029		
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	12/31/24	12/31/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2453031		
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24			
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24			
Surrogate: n-Nonane		102 %	50-200	12/31/24	12/31/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453033		
Chloride	209	20.0	1	12/31/24	12/31/24			



N	Mack Energy	Project Name:	West Mount A	
7	7 W. Compress Road	Project Number:	20046-0001	Reported:
I	Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

SW Comp 13-12

E412200-13

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2453029
Benzene	ND	0.0250	1	12/31/24	12/31/24	
Ethylbenzene	ND	0.0250	1	12/31/24	12/31/24	
Toluene	ND	0.0250	1	12/31/24	12/31/24	
o-Xylene	ND	0.0250	1	12/31/24	12/31/24	
p,m-Xylene	ND	0.0500	1	12/31/24	12/31/24	
Total Xylenes	ND	0.0250	1	12/31/24	12/31/24	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2453029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/31/24	12/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	12/31/24	12/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2453031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/31/24	12/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/31/24	12/31/24	
Surrogate: n-Nonane		106 %	50-200	12/31/24	12/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2453033
Chloride	209	20.0	1	12/31/24	12/31/24	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladden				1/	2/2025 1:38:28PM
		Volatile O	rganics b	y EPA 8021	В				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2453029-BLK1)						I	Prepared: 12	2/31/24 Ana	lyzed: 12/31/24
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	7.07		8.00		88.4	70-130			
LCS (2453029-BS1)						I	Prepared: 12	2/31/24 Ana	lyzed: 12/31/24
Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			
LCS Dup (2453029-BSD1)						I	Prepared: 12	2/31/24 Ana	lyzed: 12/31/24
Benzene	5.32	0.0250	5.00		106	70-130	2.10	20	
Ethylbenzene	5.20	0.0250	5.00		104	70-130	2.12	20	
Toluene	5.29	0.0250	5.00		106	70-130	1.97	20	
o-Xylene	5.18	0.0250	5.00		104	70-130	2.14	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	2.16	20	
Total Xylenes	15.8	0.0250	15.0		105	70-130	2.16	20	



Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

Artesia NM, 88210		Project Manager:		atalie Gladden	ı			1/2	2/2025 1:38:28PM			
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: SL			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2453029-BLK1)							Prepared: 12	2/31/24 Analy	yzed: 12/31/24			
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130						
LCS (2453029-BS2)							Prepared: 12	2/31/24 Analy	yzed: 12/31/24			
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.6	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130						
LCS Dup (2453029-BSD2)							Prepared: 12	2/31/24 Analy	yzed: 12/31/24			

70-130

70-130

20.0

7.15

QC Summary Data

Mack Energy	Project Name:	West Mount A	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/2/2025 1:38:28PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1				1/2/2025 1:38:28PM
	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 (2453031-BLK1)							Prepared: 1	2/31/24 An	alyzed: 12/31/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2453031-BS1)							Prepared: 1	2/31/24 An	alyzed: 12/31/24
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			
Matrix Spike (2453031-MS1)				Source:	E412198-	01	Prepared: 1	2/31/24 An	alyzed: 12/31/24
Diesel Range Organics (C10-C28)	586	25.0	250	311	110	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			
Matrix Spike Dup (2453031-MSD1)				Source:	E412198-	01	Prepared: 1	2/31/24 An	alyzed: 12/31/24
Diesel Range Organics (C10-C28)	569	25.0	250	311	103	38-132	2.87	20	
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager	: 20	est Mount A 0046-0001 atalie Gladden					Reported: 1/2/2025 1:38:28PM
			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 (2453033-BLK1)							Prepared: 12	2/31/24 Ar	nalyzed: 12/31/24
Chloride	ND	20.0							
LCS (2453033-BS1)							Prepared: 12	2/31/24 Ar	nalyzed: 12/31/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2453033-BSD1)							Prepared: 12	2/31/24 Ar	nalyzed: 12/31/24
Chloride	254	20.0	250		102	90-110	0.354	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 A	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/02/25 13:38

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.



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Client: N	vextru	Enera	(Atter	ntion: ENERGY STAFFING	SERVICES	Lab	WO#	_	-	lob I	Numbe	er al	1D		3D 5	Standard	CWA	SDWA
Project N	lanager:	0,0,1			Addr	ess: 2724 NW COUNTY RI)	EZ	112	200		200	46.	2001		X				RCRA
Address:					City,	State, Zip HOBBS, NM 8	8240	-			-	Analy	isis and	Method	1					KCKA
City, Stat Phone:	e, Zip					e: 575-393-9048 I: NATALIE@ENERGYSTAFFI	INGLLC.COM	15	15										State	
mail:					Lilla	BRITTNEY@ENERGYSTAF		by 8015	oy 80.	21	09	0	0.00		ΣN			NM CO	UT AZ	TX
Report d	ue by:					250.0 257132 (4.75.0. 2.75.1.		ORO t	ORO L	by 80	y 826	s 601	ide 3(XI O		X		
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		ВСБОС	BGDOC			Remarks	
	12/27/24	5	1	Sucem	01-	10	1								X					
	1	٨	1	Swam	07 -	10	2								1					
		1		300000	- 2	11	3								1					
				Swcom	P3-	9		-						+	+					
				Sucom	p4-	(0	4					-		-	+					
				5W Con	4		5													
				Sew comm	4		6													
				Swcom	07-	14	7													
				Swew	DB-	17	7													
				Bucon	109-	-17	9													
	11/11/14	<	1	SWCOM	1010	- 8	10								X	8				
Addition	al Instruc	tions:	1 '	100000	Me co	0			1		-		1 1							
						nat tampering with or intentionally m	nislabelling the sam	ple loca	tion,			Samp	oles require	ng thermal	preserv	ation m	ust be rece ess than 6 °	ved on ice the da C on subsequent	y they are sam Jays.	pled or receiv
				may be grounds for le		Sampled by: (Signature)	Date		Time						لر	ab U	se Only	,		
And	1 TUN		it	121/24		Michelle Gonz	ales 123	0.14	L	332		Red	ceived	on ice:	6	Y / 1	١			
Myruish	d No (Sign	ture)	es Date		30	Received by: (Signature)	Date 12-3	0-24	Time	30		T1			T2			T3		
Relinquish	ed by/(Sign	ture)	Date	Time		Received by (Signature)	Date /	ala	Time			Ī.,,		00	11					
4/5/	1/1/2	I - Solid, Sg -		-30-24 23	00 1	achilla	12/2	1/2°	111	0	-		G Tem	ag - aml	7	- V	VOA			

ty, State, Zip none: mail: eport due by: Time Date Matrix No. of Sample ID	Attention: ENERGY STAFFING SERV Address: 2724 NW COUNTY RD City, State, Zîp HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLI BRITTNEY@ENERGYSTAFFINGLI	.C.COM	DRO/ORO by 8015	3015 #0A	200	2	2N	Number 146-1 sis and	n n Metho	1D	2D	3D	Standard	CWA	SDWA
oject Manager: ddress: ty, State, Zip none: mail: eport due by: Time Date Matrix No. of Sample ID	City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLI	.LC.COM			200)	Analy	sis and	000 (Metho	d					
ty, State, Zip none: mail: eport due by: Time Date Matrix No of Sample ID	Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLI	.LC.COM	0 by 8015	3015			Analy	sis and	Metho	d					DCDA
ty, State, Zip none: mail: eport due by: Time Date Matrix No. of Sample ID	Email: NATALIE@ENERGYSTAFFINGLI	.LC.COM	0 by 8015	3015						1	_				RCRA
none: mail: eport due by: Time Date Matrix No. of Sample ID		.LC.COM	0 by 8015	3015			1 1							Ct-t-	
eport due by: Time Date Matrix No. of Sample ID	BRITTNEY@ENERGYSTAFFINGI		by S	00							×		NAT CO	State UT AZ	TVI
Time Date Matrix No of Sample ID		Lah	0	8 A	121	09	0	300.0		Σ			NM CO	UT AZ	1^
I Matrix I Dattible IL		l lah)RC	ORO	39 80	γ82	09 s	de 3						\perp	
Samples Samples		Number	DRO/C	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC	Верос			Remarks	
12/21/24 5 1 SWC	mp11-8	11								X					
1 (1 500	Mp12-8	12								(
12/27/24 5 1 SWC	Mp11-8 Mp12-8 DMp13-12	13								X					
									1	T					
							1					\vdash			
				-	-	-	-			+	-				
					-	-	-	\vdash	-	+	-	\vdash			
						1									
additional Instructions:															
	mple. I am aware that tampering with or intentionally mislabell is for legal action. Sampled by:	ling the sample	e locati	ion,									eived on ice the day "C on subsequent d		led or receiv
ate or time of collection is considered fraud and may be groun	Time Received by: (Signature)	Date	-	Time						1	ab U	se On	lv		
And Torras 12/27/24	Michelle Goneries	1230			5_	Received on ice: (Y) / N									
clinquished by (Signature) Vichelle Gonzales 12-36-24	Time Received By: (Signature)	12-30-	-24 1636		<u>T1 </u>										
delinquished by: (Signature) Date 12-30-24	Time Regeived by Gignatura	-12/31	1/24 7/5		AVG Temp °C 4										
ample Magrix S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O -	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
lote: Samples are discarded 30 days after results are re	orted unless other arrangements are made. Hazardous	samples wil	I be re	turne	d to c	lient o	or disp	osed of	at the cl	ient ex	pense	. The r	eport for the ar	alysis of the	above



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Printed: 12/31/2024 8:30:57AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

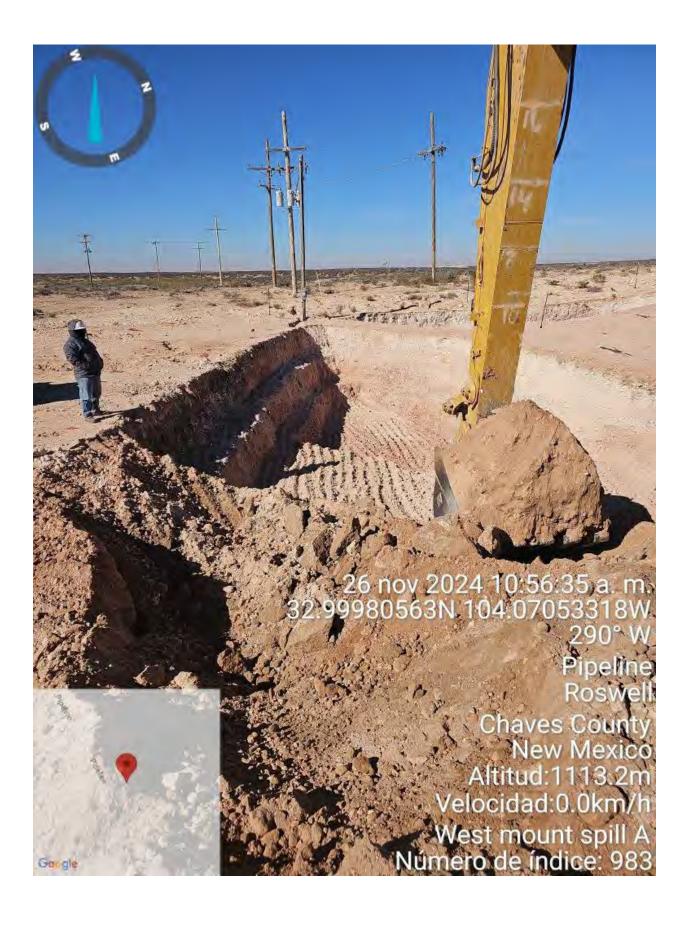
Instructions: Please take note of any NO checkmarks.

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.

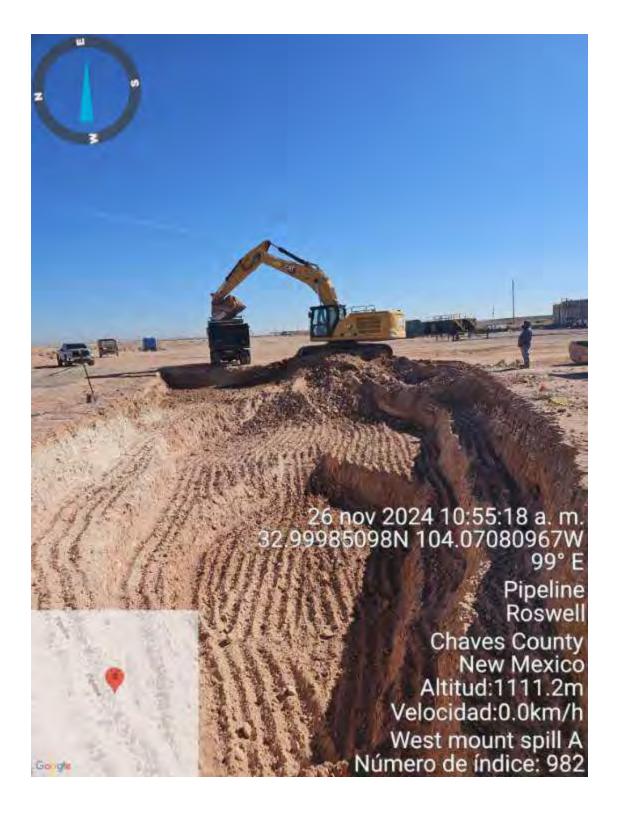
	M 1 F					
Client:	Mack Energy	Date Received:	12/31/24 0		Work Order ID:	E412200
Phone:		Date Logged In:	12/30/24 14		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	01/02/25 1	7:00 (1 day TAT)		
Chain of	f Custody (COC)					
	the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site location match the COC			Yes			
	samples dropped off by client or carrier?		Yes	Carrier: C	`ourier	
	ne COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No	Carrier. <u>c</u>	Journer	
	all samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in t				Common	ts/Resolution
	i.e, 15 minute hold time, are not included in this disucssion	.		1	Commen	ts/Acsolution
	Turn Around Time (TAT)		Yes		Project manager and ting	ne sampled not
	e COC indicate standard TAT, or Expedited TAT?		108		provided on COC.	
Sample 0	sample cooler received?		Yes		provided on COC.	
	was cooler received in good condition?		Yes			
• 1	ne sample(s) received intact, i.e., not broken?					
			Yes			
	custody/security seals present?		No			
-	s, were custody/security seals intact?		NA			
12. Was tl	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		Yes			
13. If no	visible ice, record the temperature.	emperature: 4°0	<u>C</u>			
Sample (<u>Container</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			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La						
	e field sample labels filled out with the minimum information ID2	mation:	Yes			
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		No			
Sample 1	Preservation					
21. Does	the COC or field labels indicate the samples were pre-	served?	No			
22. Are s	sample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved me	tals?	No			
Multiph:	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multiphase	?	No			
27. If yes	s, does the COC specify which phase(s) is to be analyz	ed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laboratory	₁ ?	No			
	a subcontract laboratory specified by the client and if s			Subcontract Lab	o: NA	
Client I	<u>nstruction</u>					

MACK ENERGY: WEST MOUNT SPILL A REMEDIATION AND FINAL PHOTOS





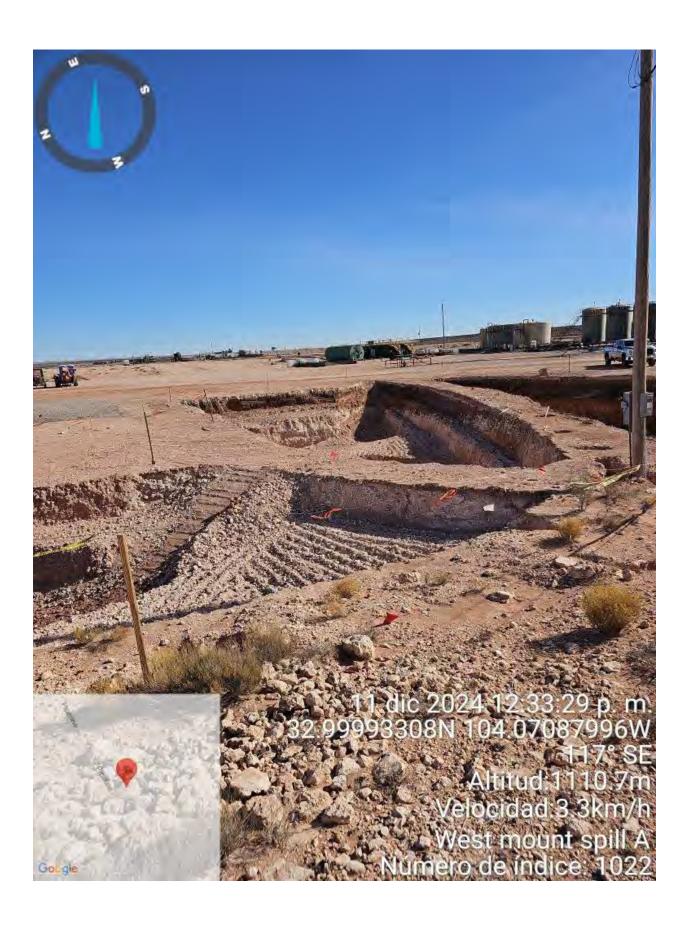




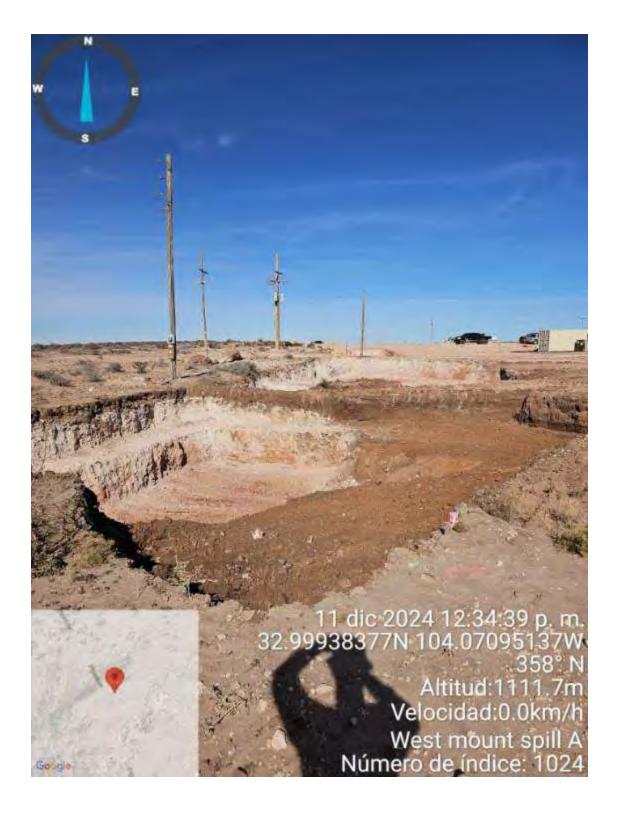




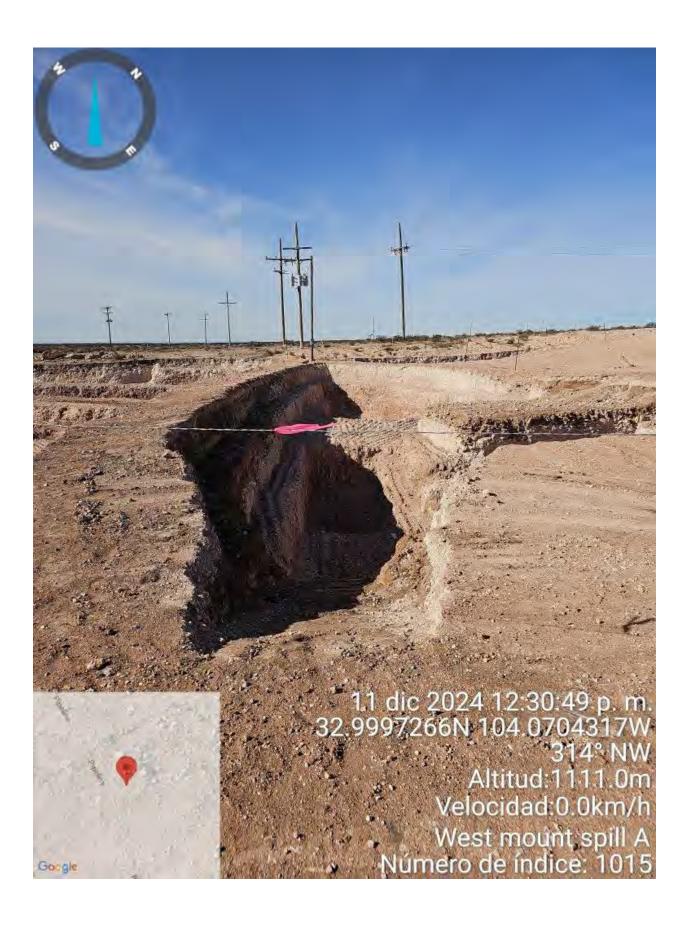




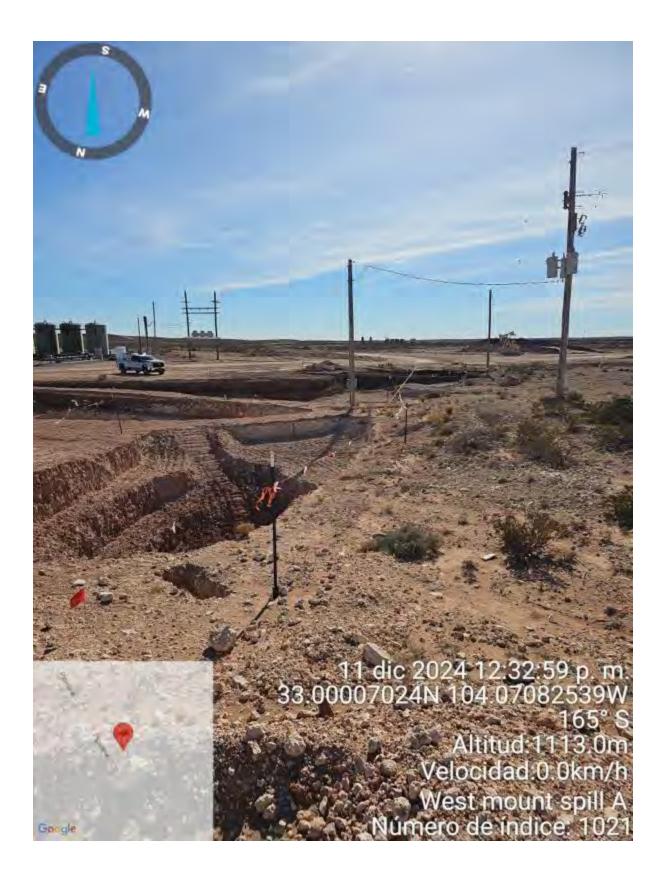


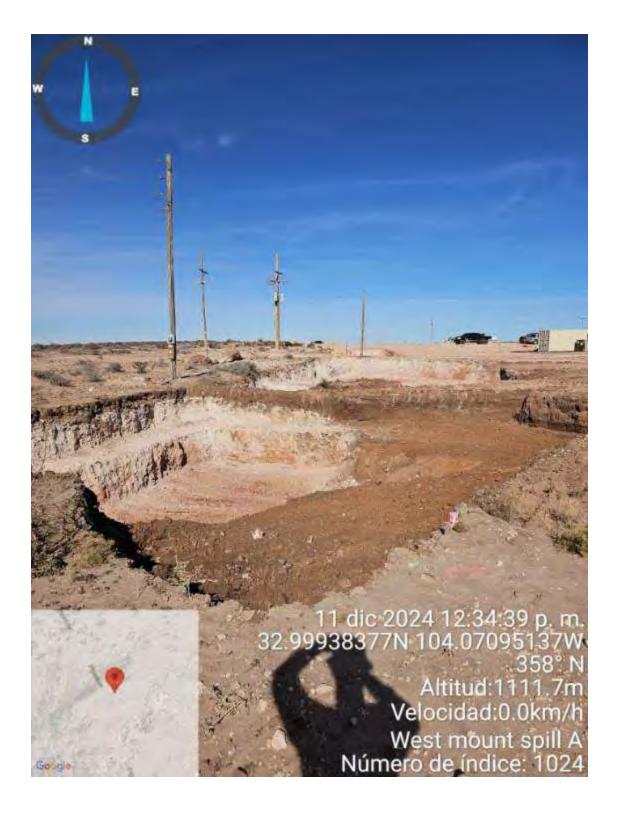




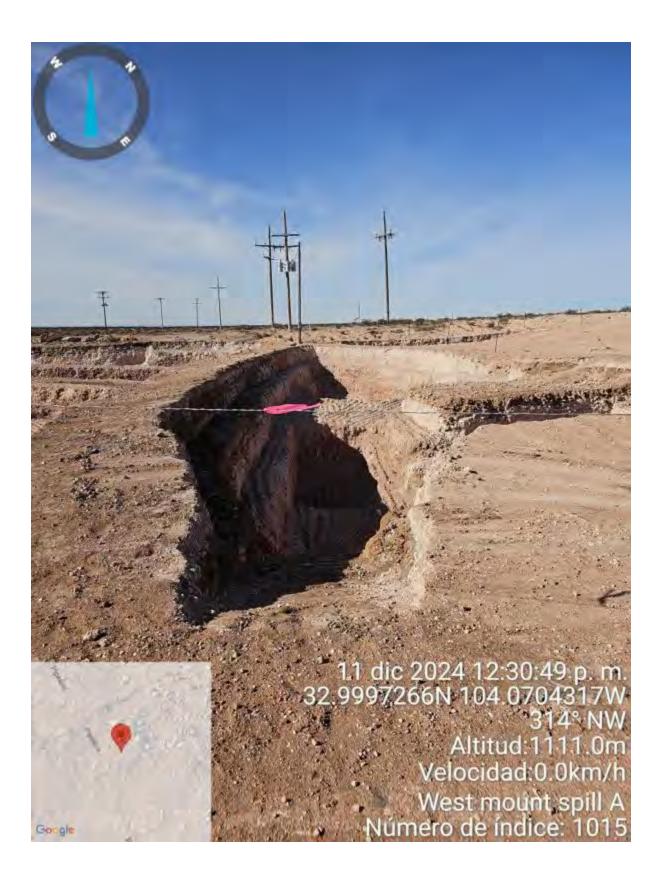




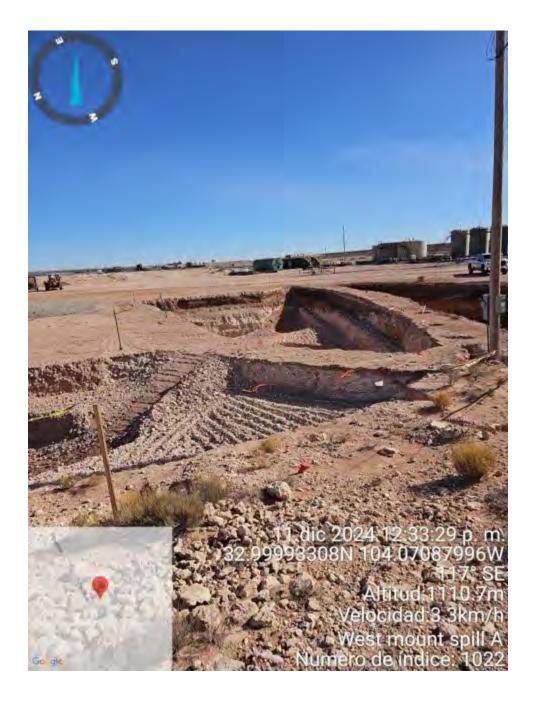


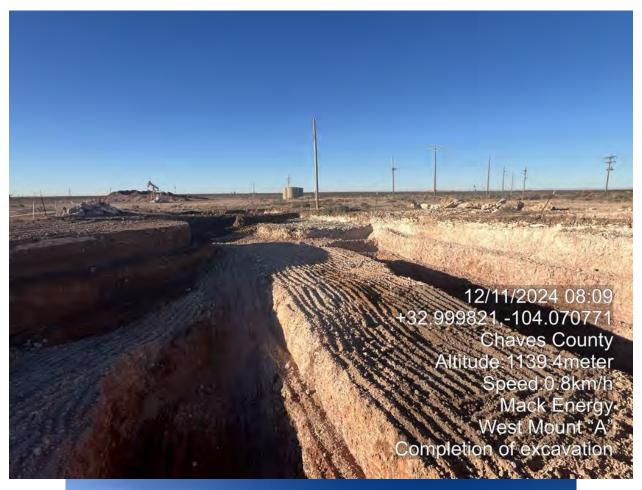


























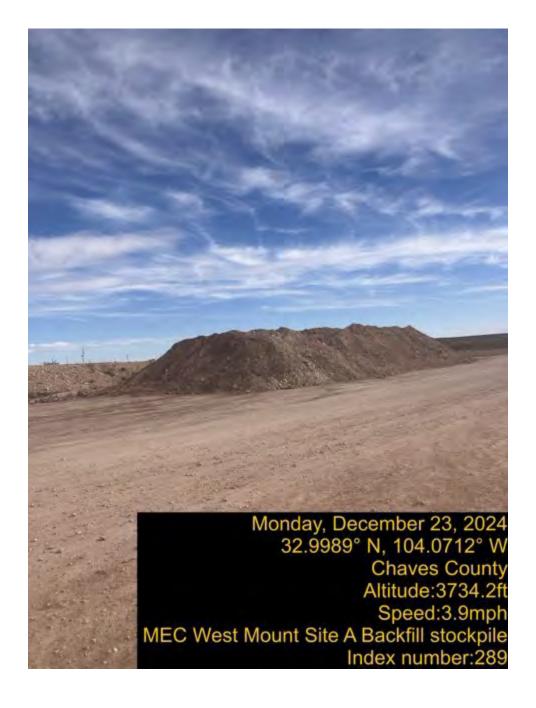


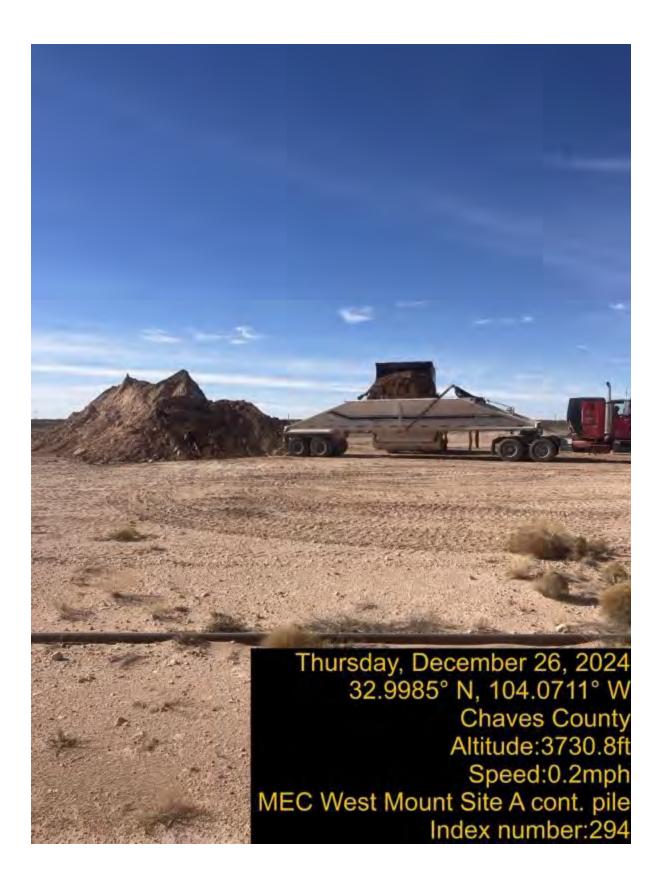


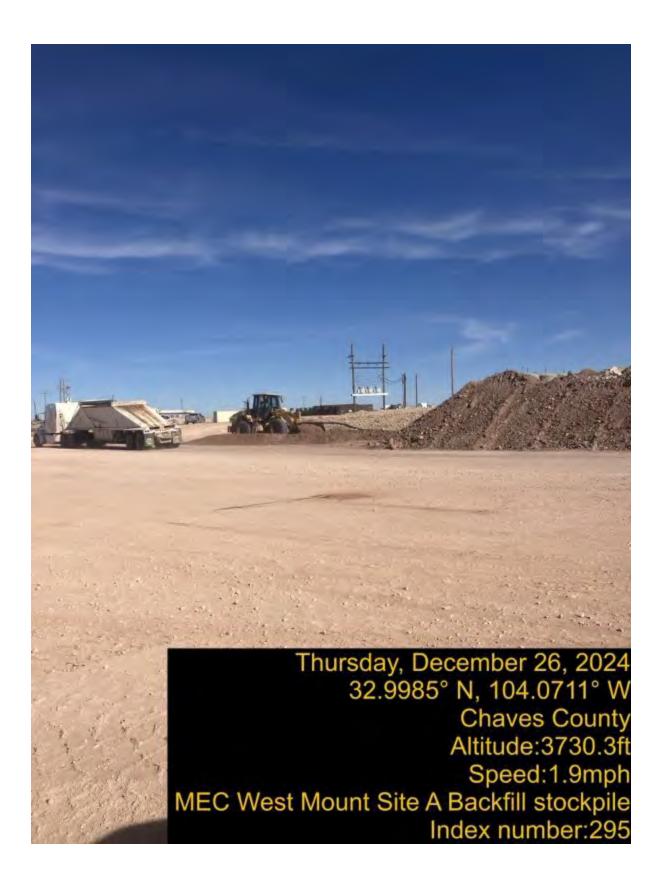


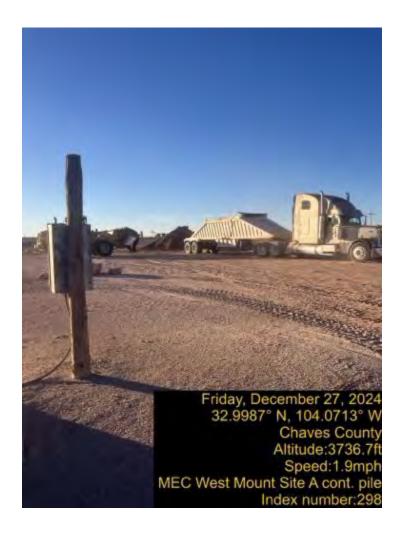


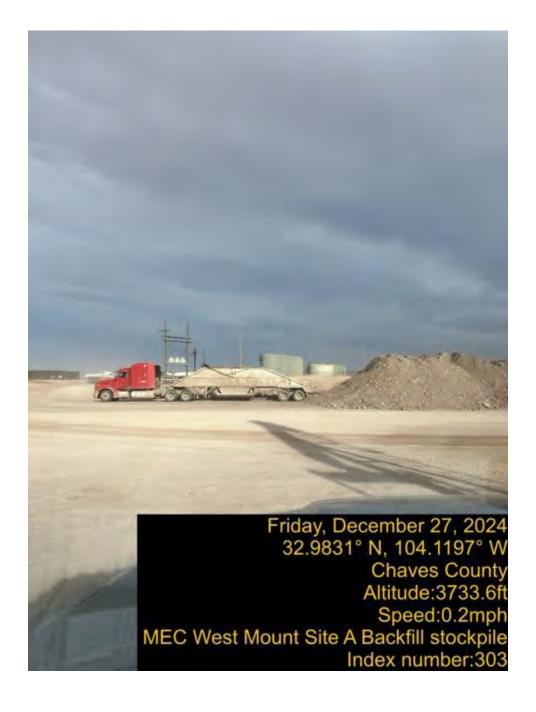


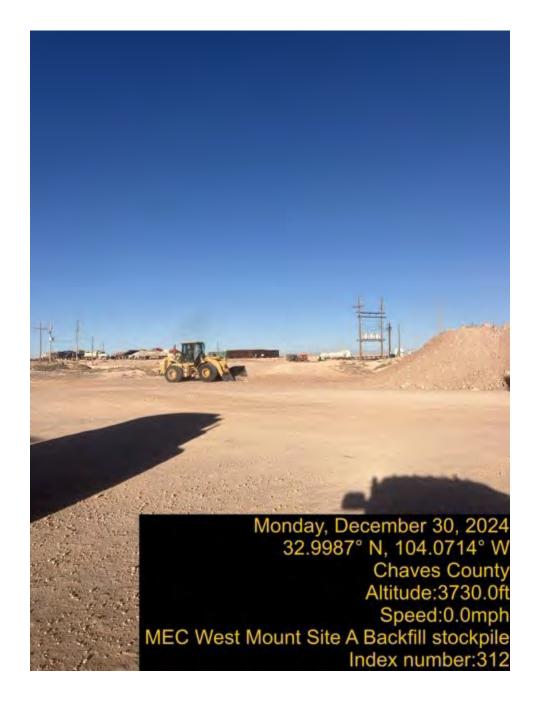






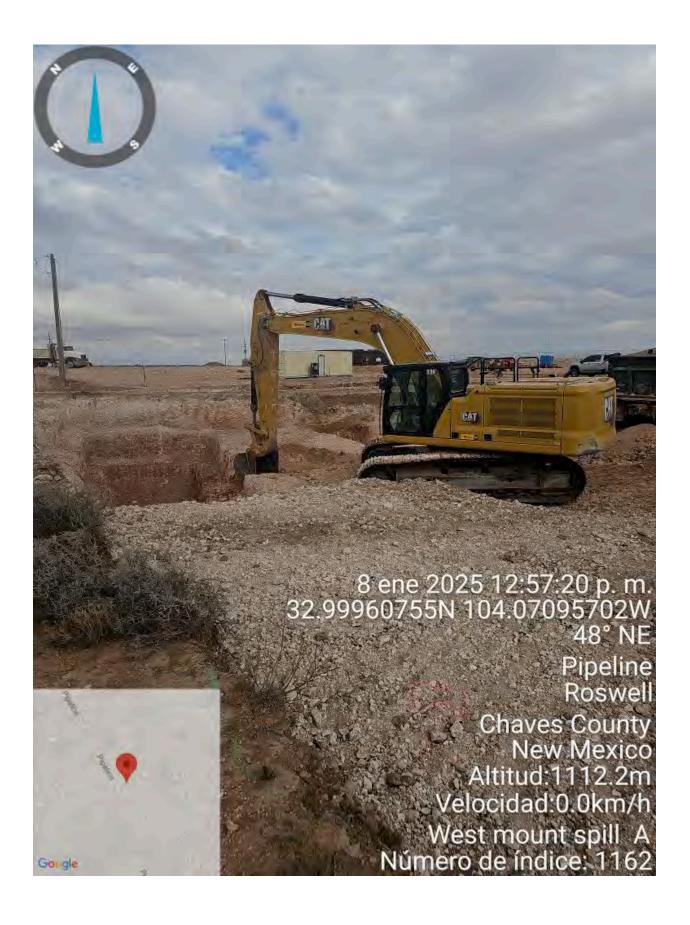






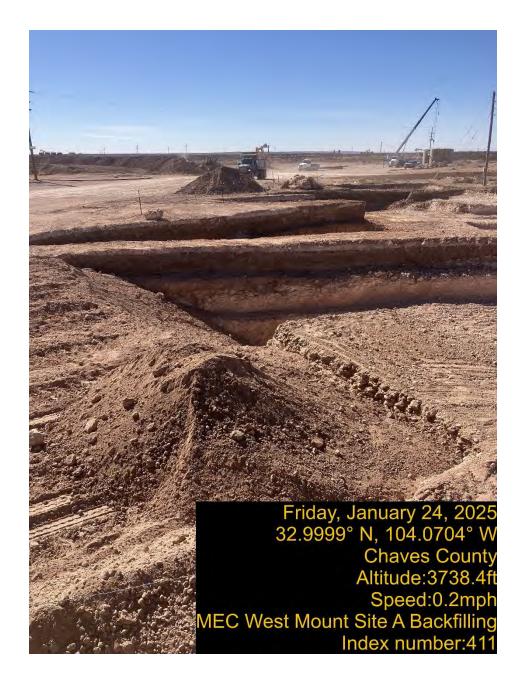


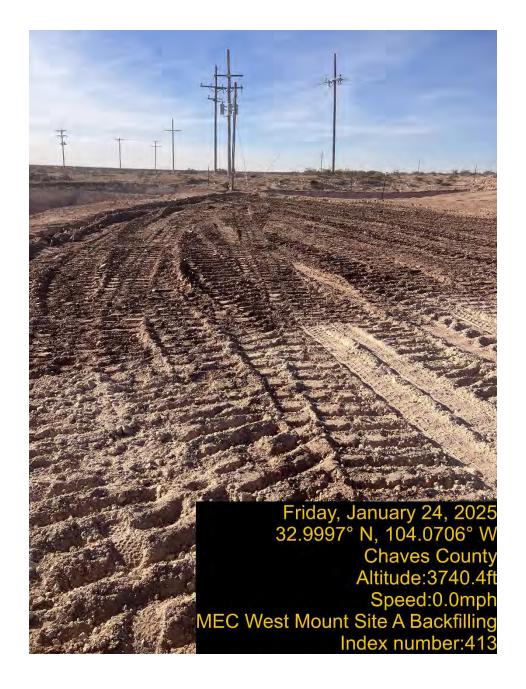


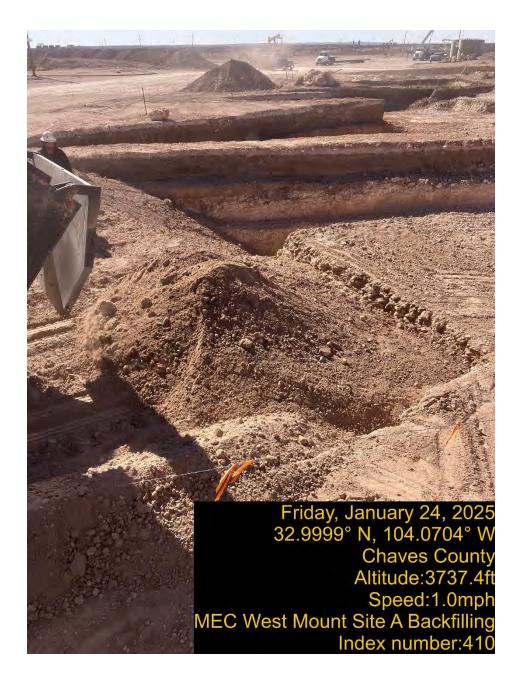


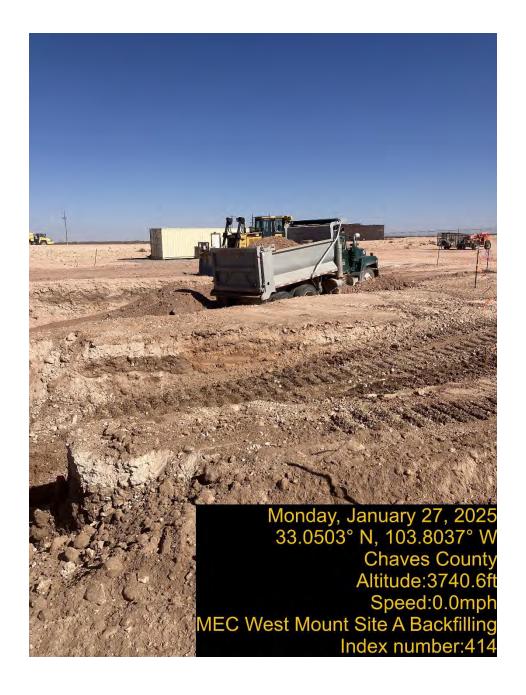


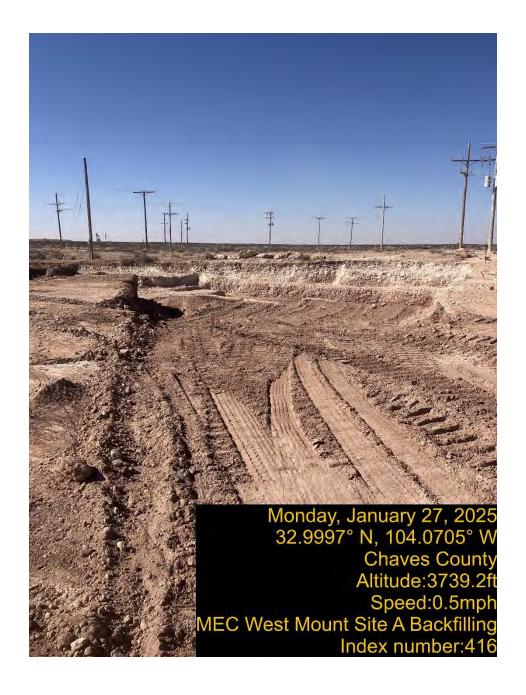


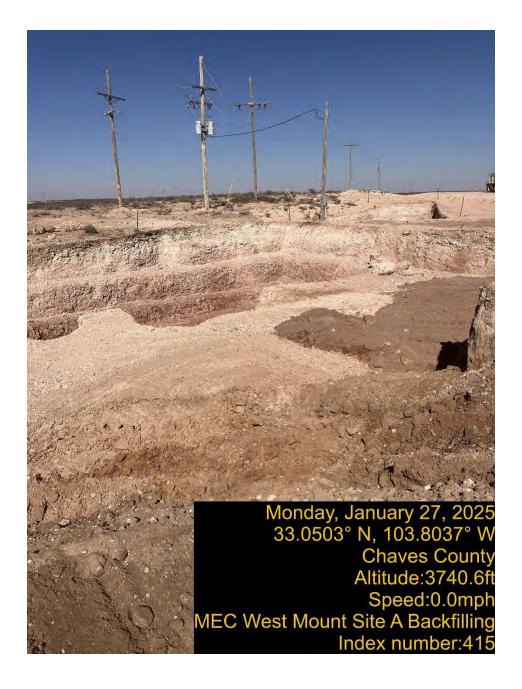














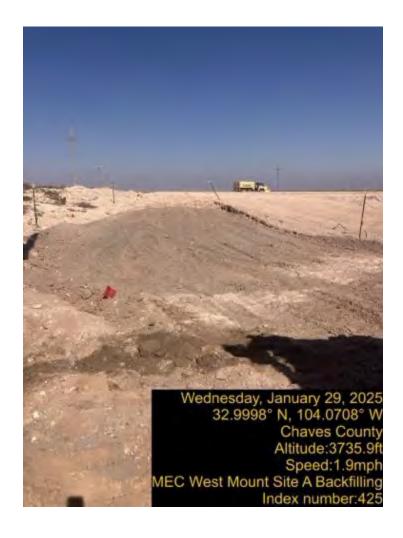


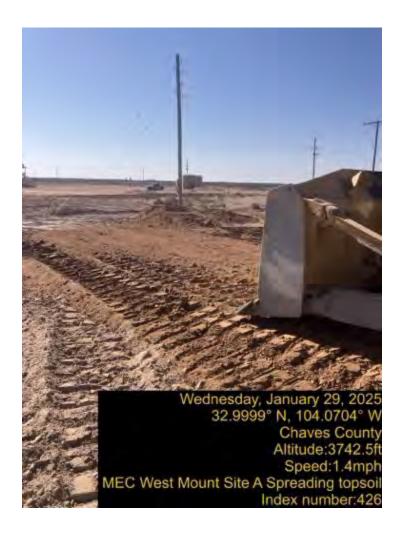


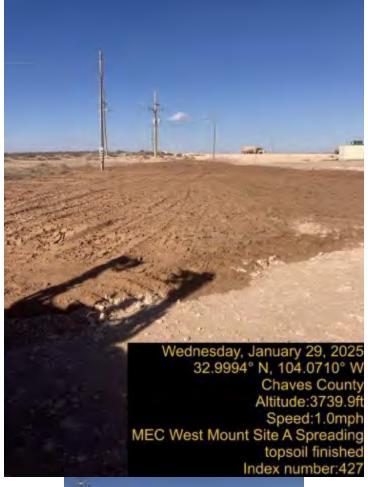




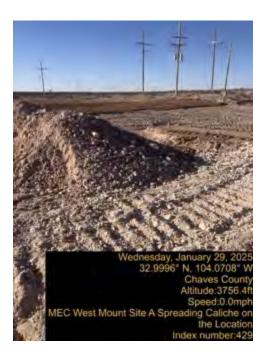














Mack Energy NMSLO Sandy Loam- 1.8 Ac Broadcasted Lot #: 68135

28.29

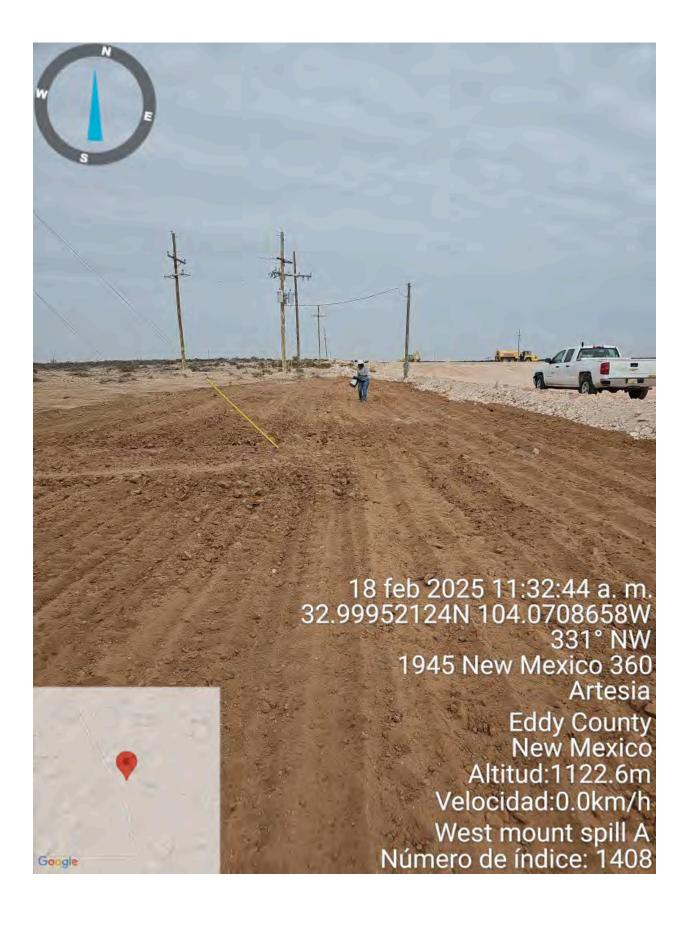
Item	% Pure Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Little Bluestem, Aldous	9.72%	Kansas	61.69%	59.CO%	31.00%	90.00%	11/2024
Galleta, Viva	9.30%	Texas	86.14%	21.00%	73.00%	94.00%	9/2024
Blue Grama, Alma	7.36%	Texas	31.75%	94.00%	1.00%	95.00%	10/2024
Sideoats Grama, Niner	7.21%	Texas	71,10%	16.00%	81.00%	97.00%	12/2024
Four-wing Saltbush, Variety Not State	d 7.07%	New Me	xice1.52%	0.00%	0.00%	99.00%	11/2024
Winter Fat, Variety Not Stated	6.66%	New Me	xic 48 .97%	90.00%	2.00%	92.00%	8/2024
Palmer Penstemon, Variety Not State	d 3.72%	Utah	98.86%	15.00%	79.00%	94.00%	7/2024
Sand Dropseed, Variety Not Stated	3.61%	Oklahon	na 95.21%	92.00%	5.00%	97.00%	10/2024
Gaillardia Aristata, Variety Not Stated	3.61%	Oregon	89.09%	97.00%	0.00%	97.00%	6/2024
Blue Flax, Appar	3.60%	Washing	tor98.42%	97.00%	0.00%	97,00%	6/2024
Blackeyed Susan, Variety Not Stated	3.53%	Iowa	99.38%	99.00%	0.00%	99.00%	6/2024
Seed Total	65.39%				N.		
					N 3		
Inert Matter:	34.54%					114 .	
Other Crop:	0.08%			NIMEROS	andu Loan	n 1 9 AC Proc	docated
Weed Seed:	0.01%					n-1.8 AC Broa Bag into 3) 0.	

curtisseed: None

450048641Primeria. Clovis, NM 88101 ed bags @ 28. (575) 762-47







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

Phone: (505) 629-6116
Online Phone Directory
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 461625

QUESTIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2327756575	
Incident Name	NAPP2327756575 WEST MOUNT SPILL A @ 30-005-64381	
Incident Type	Produced Water Release	
Incident Status	Reclamation Report Received	
Incident Well	[30-005-64381] WESTMOUNT FEDERAL COM #001H	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	WEST MOUNT SPILL A	
Date Release Discovered	09/20/2023	
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 fo	or 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: 85 BBL Recovered: 0 BBL Lost: 85 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 461625

QUESTIONS	(continued)
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Operator: MACK ENERGY CORP	OGRID: 13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	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.	e. gas only) are to be submitted on the C-129 form.
L w r B	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
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.
	flation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o sted 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 relethe 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 asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 3

Action 461625

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
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 ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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

Remediation Plan		
Please answer all the questions th	nat apply or are indicated. This information must be provided to the	he appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination a	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in milli	igrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	24100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6650
GRO+DRO	(EPA SW-846 Method 8015M)	6650
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	IMAC unless the site characterization report includes completed elines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	Il the remediation commence	10/25/2024
On what date will (or did) the	ne final sampling or liner inspection occur	12/19/2024
On what date will (or was)	the remediation complete(d)	12/30/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	1468
What is the estimated volume	me (in cubic yards) that will be reclaimed	218
What is the estimated surfa	ce area (in square feet) that will be remediated	8066
What is the estimated volume	me (in cubic yards) that will be remediated	4480
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 461625

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	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.)		
Yes		
GANDY MARLEY LANDFARM/LANDFILL [fEEM0112338393]		
Not answered.		
Not answered.		
Not answered.		
No		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Natalie Gladden
Title: Environmental
Email: natalie@energystaffingllc.com
Date: 05/13/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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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 461625

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 461625

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	410723
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/16/2024
What was the (estimated) number of samples that were to be gathered	90
What was the sampling surface area in square feet	12841

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	8066
What was the total volume (cubic yards) remediated	4480
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	1468
What was the total volume (in cubic yards) reclaimed	218
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: 05/13/2025

Operator:

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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 461625

QUESTIONS (continued)

OGRID:

MACK ENERGY CORP	13837
P.O. Box 960 Artesia, NM 882110960	Action Number: 461625
	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	1468
What was the total volume of replacement material (in cubic yards) for this site	218
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 over 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)	02/18/2025
Summarize any additional reclamation activities not included by answers (above)	USED THE NMSLO SEEDING CRITERIA FOR THE SITE
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form t field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13
to report and/or file certain release notifications and perform corrective actions for relea 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 repor	knowledge and understand that pursuant to OCD rules and regulations all operators are required isses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 05/13/2025

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QUESTIONS, Page 8

Action 461625

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	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 461625

CONDITIONS

Operator:	OGRID:
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P.O. Box 960	Action Number:
Artesia, NM 882110960	461625
	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 #NAPP2327756575 WEST MOUNT SPILL A, thank you. This Reclamation Report is approved. For future reference, the reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	6/10/2025