

WEST MOUNT SPILL C CLOSURE REQUEST

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

DATE OF RELEASE: 09/20/2023 INCIDENT NO. NAPP2327834535

August 27, 2025
Prepared by:



August 27, 2025

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

Mack Energy Corporation 11344 Lovington Hwy Artesia, NM 88210

Subject: Closure Report for Mack Energy Corporation- West Mount Spill C

API No. 30-005-64381 Incident No. NAPP2327834535 Unit Letter F, Section 27, Township 15S, Range 28E Chaves County, New Mexico

To Whom it May Concern:

Introduction

Mack Energy retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the West Mount Spill C (hereafter referred to as "Spill C") regarding the produced water release that occurred on September 20, 2023.

On September 22, 2023, at 4:12 p.m., ESS provided immediate notification of the release to the New Mexico Oil Conservation Division (NMOCD), District I Office via email (notification attached). On behalf of Mack Energy, ESS subsequently submitted the initial C-141 Release Notification, along with the spill calculator used to determine the release volume, on October 5, 2023. The NMOCD accepted the C-141 as record on October 6, 2023, at 10:34 a.m. The release was assigned Incident No. NAPP2327834535 (notification correspondence attached).

This report provides a detailed summary of the spill assessment, delineation, and remedial activities, and demonstrates that closure criteria established under 19.15.29.12 NMAC (New Mexico Oil Conservation Division, 2018) have been met. All applicable regulatory requirements have been followed.

This document is intended to serve as the final report to obtain NMOCD approval for the closure of Incident No. NAPP2327834535. the above-mentioned release.

Initial Release Discovery

On September 20, 2023, the water transfer company Well Spring identified a failure in their lay-flat line, which resulted in the release of produced water into the pasture area of Spill C.

Upon notification, Energy Staffing Services (ESS) mobilized to the site to conduct a full environmental site assessment. After measuring the impacted area, it was determined that approximately 30.56 barrels of produced water had been released. No fluid was recoverable at the time of assessment.

Initial site photographs and impact area measurements were documented. Please see the attached initial site photos.

Site Characterization

The Spill C release occurred on State Land, located at latitude 32.988705 and longitude - 104.072056, approximately 19.7 miles southeast of Hagerman, New Mexico. The legal description of the site is Unit Letter F, Section 27, Township 15S, Range 28E, situated in Chaves County, New Mexico. A site schematic is attached.

The release originated from production lines near production facilities and well pads, specifically within the pasture area of Spill C. The site elevation is 3,738 feet. Vegetation in the area is historically dominated by black grama, bush muhly, dropseed, creosote bush, and other perennial grasses and forbs. Rangeland and vegetation classification information is attached.

According to the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS), the soil type at the release site consists of 100% Tencee-Sotim association (Soil Map attached). The FEMA National Flood Hazard Layer indicates a 0.2% chance of flood hazard, with a 1% chance flood depth averaging one foot in drainage areas less than one square mile (Flood Map attached).

The U.S. Department of the Interior, Bureau of Land Management identifies a low potential for karst geology in the vicinity of Spill C (Karst Map attached).

No surface water features are present near the release. The site is not within one-half mile of any continuously flowing watercourse or lakebed. No other critical or community features were identified (Watercourse Map attached).

The nearest water well, as documented by the New Mexico Office of the State Engineer (NMOSE), is RA12428, drilled in 2016, with a total depth of 170 feet and groundwater depth of 125 feet, located 6,176 yards from the site. Additional nearby wells include:

 RA12429 POD1 – drilled 2016; depth 62 ft; groundwater at 27 ft; located 8,215 yards from site.

- RA10280 drilled 2003; depth 70 ft; groundwater at 40 ft; located 8,284 yards from site.
- RA09248 drilled 1996; depth 145 ft; groundwater at 45 ft; located 8,381 yards from site.
- RA09059 drilled 1996; depth 110 ft; groundwater at 35 ft; distance not specified.

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An extended groundwater survey conducted with the OSE POD Location Mapping System identified two additional wells within one-half mile of the Spill C release:

- RA12007 POD1 no drilling, depth, or groundwater data available.
- RA12006 POD1 no drilling, depth, or groundwater data available.

Supporting figures, including the NMOSE well data, OSE POD mapping results, and the groundwater map, are attached to this report.

Closure Criteria

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

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

Soil Remediation Action Levels

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

Soil Sampling and Laboratory Analysis

Soil sampling for laboratory analysis was conducted in accordance with NMOCD-approved industry standards. The accepted procedures and methods used are outlined below:

- Samples were collected in airtight glass jars supplied by the laboratory.
- Each sample jar was labeled with site and sample identification information.
- Samples were stored in a cool environment, packed on ice, and maintained under proper preservation conditions.
- Samples were promptly shipped to the laboratory for analysis under strict chain-ofcustody procedures.

All bottom-hole (vertical) and sidewall (horizontal) samples were submitted to Envirotech Analytical Laboratory for analysis using the following approved methods:

Volatile Organics (EPA 8021B)

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

Nonhalogenated Organics – EPA 8015D (GRO)

Gasoline Range Organics (C6–C10)

Nonhalogenated Organics – EPA 8015D (DRO/ORO)

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

Anions - EPA 300.0/9056A

Chloride

Release Investigation Data

On November 14, 2023, Energy Staffing Services (ESS) mobilized to the Spill C release site to initiate delineation activities. Sample points were established, GPS-located, and surface samples were obtained. Each surface sample was field-tested, logged, and submitted to Envirotech Laboratory for confirmation analysis.

A total of 14 vertical sample points and 19 horizontal sample points were established. Each point was sampled using a backhoe in 1-foot and 2-foot intervals, with bottom-hole samples subsequently submitted to the laboratory for confirmation.

Please see the delineation sample data below (laboratory samples indicated in yellow). Attached to this report are the sample data tables, the delineation sample map, and the laboratory analysis results.

				L-	L-	L-	L-	L-	100	
SP ID	Depth	Titr	PID	BTEX	GRO	DRO	ORO	TPH	L-CHL	Dates
SP1	SURF	320	L	ND	ND	ND	ND	ND	331	11/14/2023
	2	160								
	4	320								
	6	320	L	ND	ND	ND	ND	ND	254	2/19/2024
K spirit				112/2011			-21001			
SP2	SURF	1440	L	ND	ND	ND	ND	ND	2030	11/14/2023
	2	240								
	4	480								
	6	400	L	ND	ND	ND	ND	ND	497	2/19/2024
		ALC N						Mr.		
SP3	SURF	2720	L	ND	ND	ND	ND	ND	2630	11/14/2023
	2	640								
	4	640								
	6	400								
	8	400	L	ND	ND	ND	ND	ND	311	2/19/2024
		"ار هر دو اي		f an	3 645		TO THE			
SP4	SURF	1760	L	ND	ND	ND	ND	ND	2060	11/14/2023
	2	240								
	4	400								
	6	320	L	ND	ND	ND	ND	ND	225	2/19/2024
		I STANK I		78				28 6 11		
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	19600	11/14/2023
	2	80								
	4	560								
	6	320	L	ND	ND	ND	ND	ND	332	2/19/2024
BAZZ			l le ^{tte}							No. of the last
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	7210	11/14/2023
	2	240								
	4	400								
	6	320	L	ND	ND	ND	ND	ND	229	2/19/2024
		L L TESTIV		Ripaki		1.51	THE ST			
SP7	SURF	480	L	ND	ND	ND	ND	ND	832	11/14/2023
	2	320								
	4	480								
	6	320	L	ND	ND	ND	ND	ND	304	2/19/2024
	PAR SUPPL	Fig. 12			100		EDE D			
SP8	SURF	2080	L	ND	ND	ND	ND	ND	3480	11/14/2023
	2	400							-	
	4	640								

	6	400								
	8	480								
	10	480	L	ND	ND	ND	ND	ND	404	2/19/2024
1 11 2			41.4		N.D.	AID	NID	ND	2440	11/14/2022
SP9	SURF	3280	L	ND	ND	ND	ND	ND	3410	11/14/2023
	2	400								
	4	480		ND	NID	ND	NID	NID	207	2/19/2024
7. J.	6	400	Ļ	ND	ND	ND	ND	ND	287	2/19/2024
SP10	SURF	1440	L	ND	ND	ND	ND	ND	3990	11/14/2023
31 10	2	160						.,,_		
	4	400								
	6	320	L	ND	ND	ND	ND	ND	342	2/20/2024
						1000			150 66	Han LA
SP11	SURF	3680	L	ND	ND	30.5	63	93.5	1590	11/14/2023
	2	160								
	4	240								
	6	240	L	ND	ND	ND	ND	ND	51.1	2/20/2024
									45.	44/44/0000
SP12	SURF	160	L	ND	ND	ND	94	94	25.2	11/14/2023
	2	160								
_	4	240		ND	ND	ND	NO	ND	25.0	2/20/2024
F 2	6	240	L	ND	ND	ND	ND	ND	25.8	2/20/2024
SP13	SURF	1120	Н	ND	ND	53.5	194	247.5	1240	11/14/2023
	2	2240								
	4	400								
	6	240								
	8	240								
	10	160								
	12	160	L	ND	ND	ND	ND	ND	22	2/20/2024
			JANE						60.0	44/44/0000
SP14	SURF	160	Н	ND	ND	34.5	207	241.5	62.2	11/14/2023
	2	1040								
	4	320							NID	0/00/0004
137 H.F	6	160	L	ND	ND	ND	ND	ND	ND	2/20/2024
SW1	SURF	320	L	ND	ND	ND	ND	ND	252	11/14/2023
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	2	240								
	3	160	L	ND	ND	ND	ND	ND	31.3	2/20/2024

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SW2	SURF	2400	L	ND	ND	ND	ND	ND	1590	11/14/2023
	1	720								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	36.6	2/20/2024
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SW3	SURF	>4000	L	ND	ND	ND	ND	ND	4090	11/14/2023
	1	640								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	147	2/20/2024
Ę.		1000			(Id)	MD	ND	NID	0000	11/11/2022
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	8800	11/14/2023
	1	560								
	2	240					NID.		220	2/20/2024
	3	240	L	ND	ND	ND	ND	ND	228	2/20/2024
SW5	SURF	3200	L	ND	ND	ND	ND	ND	4680	11/14/2023
3443	1	720		ND	ND	IND	I	110	4000	11/11/2020
	2	160								
	3	160	L	ND	ND	ND	ND	ND	76.1	2/20/2024
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SW6	SURF	3520	L	ND	ND	ND	ND	ND	2120	11/14/2023
	1	1040								
	2	1200								
	3	1280								
	4	880								
	5	240	_							
	6	160	L	ND	ND	ND	ND	ND	63.8	2/20/2024
SW7	SURF	>4000	L	ND	ND	ND	ND	ND	878	11/14/2023
	1	>4000								
	2	2320								
	3	1120								
	4	640								
	5	320								
WALLEY.	6	160	L	ND	ND	ND	ND	ND	52.6	2/20/2024
SW8	SURF	800	L	ND	ND	ND	ND	ND	10400	11/14/2023
3440	1	640	-	ND	IND	IND	140	ND	10400	11/14/2023
	2	320								
	3	240	L	ND	ND	ND	ND	ND	88.1	2/21/2024

	Aug is						S S S S S S S S S S S S S S S S S S S			
SW9	SURF	240	L	ND	ND	ND	ND	ND	ND	11/14/2023
	1	880								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	119	2/21/2024
		31-31-13			94		EVI-SE			REVENIENCE.
SW10	SURF	2800	L	ND	ND	ND	ND	ND	4300	11/14/2023
	1	640								
	2	240								
	3	160	L	ND	ND	ND	ND	ND	ND	2/21/2024
SW11	SURF	1440	L	ND	ND	ND	ND	ND	1400	11/14/2023
	1	720								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	102	2/21/2024
				e nec S	211				F2.4	44/44/2022
SW12	SURF	640	L	ND	ND	ND	ND	ND	534	11/14/2023
	1	560								
	2	240								- 1- 1 1 1
	3	240	L	ND	ND	ND	ND	ND	ND	2/21/2024
SW13	SURF	160	L	ND	ND	ND	ND	ND	72.5	11/14/2023
	1	720								
	2	320								
	3	240	L	ND	ND	ND	ND	ND	ND	2/21/2024
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SW14	SURF	>4000	L	ND	ND	ND	ND	ND	5160	11/14/2023
	1	960								
	2	400								
1100000	3	160	L	ND	ND	ND	ND	ND	68.2	2/21/2024
SW15	SURF	>4000	L	ND	ND	ND	ND	ND	13400	11/14/2023
	1	960								
	2	640								
	3	480								
	4	1760								
	5	720								
	6	720								
	7	320								
	8	160	L	ND	ND	ND	ND	ND	103	2/21/2024
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SW16	SURF	320	L	ND	ND	ND	ND	ND	82.6	11/14/2023
	1	800								
	2	240								
	3	160	L	ND	ND	ND	ND	ND	ND	2/21/2024
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SW17	SURF	160	L	ND	ND	ND	ND	ND	ND	11/14/2023
	1	640								
	2	160								
	3	160	L	ND	ND	ND	ND	ND	106	2/21/2024
			JE, n		1345		the said		V 18 8	The state of the s
SW18	SURF	>4000	Н	ND	ND	28.2	88	116.2	7060	11/14/2023
	1	880								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	74.3	2/21/2024
								DAREL:		Naug Line
SW19	SURF	>4000	L	ND	ND	ND	ND	ND	18100	11/14/2023
	1	800								
	2	1040						ļ		
	3	640								
	4	640								
	5	320								
	6	160	L	ND	ND	ND	ND	ND	66.4	2/21/2024
			Day.	ALVES!						

Please see the delineation photos attached to this report.

Composite Sampling Summary

On October 7, 2024, Energy Staffing Services (ESS) submitted the official notification to the NMOCD for the composite phase of the Spill C release. On the same date, the NMOCD received and accepted this notification (see attached email correspondence).

On October 11, 2024, field crews began obtaining 200-square-foot composite samples from the excavation area of the Spill C release. A total of 50 bottom-hole composites were collected, field-tested, and submitted to Envirotech Laboratory for confirmation analysis.

The composite sample data are provided below and are also attached to this report, followed by the laboratory confirmation results.

17.78		100		L-	L-	L-	L-	L-	L-	NAJIH.
SP ID	Depth	Titr	PID	BTEX	GRO	DRO	ORO	TPH	CHL	Dates
COMP1	4	400	L	ND	ND	ND	ND	ND	415	10/11/2024
COMP2	4	400	L	ND	ND	ND	ND	ND	433	10/11/2024
COMPZ		400				ND		MER	130	(4) 11, 202 i
СОМР3	4	400	L	ND	ND	ND	ND	ND	417	10/11/2024
					476.501					Extra de la
COMP4	4	400	L	ND	ND	ND	ND	ND	431	10/11/2024
COMP5	4	320	L	ND	ND	ND	ND	ND	327	10/11/2024
	Del W	AS FY						Blace		
СОМР6	4	320	L	ND	ND	ND	ND	ND	358	10/11/2024
		220		ND	NID	NID	ND	ND	205	10/11/2024
COMP7	4	320	L	ND	ND	ND	ND	ND	365	10/11/2024
COMP8	4	320	L	ND	ND	ND	ND	ND	364	10/11/2024
			9114				3.840			
COMP9	4	320	L	ND	ND	ND	ND	ND	381	10/11/2024
COMP10	4	320	L	ND	ND	ND	ND	ND	388	10/11/2024
COMPTO	LA Ja	320		IND	NO	ND	ME	N. SA	300	10/11/2024
COMP11	4	320	L	ND	ND	ND	ND	ND	412	10/11/2024
COMP12	8	320	L	ND	ND	ND	ND	ND	414	10/11/2024
COMP13	8	240	L	ND	ND	ND	ND	ND	282	10/14/2024
		N. T.	No.	pgriss n						
COMP14	8	240	L	ND	ND	ND	ND	ND	187	10/14/2024
		1.00		ND.	ALD.	AID.	ALD	NID	101	40/44/2024
COMP15	8	160	L	ND	ND	ND	ND	ND	104	10/14/2024
COMP16	8	160	L	ND	ND	ND	ND	ND	70.2	10/14/2024
	210/52/15									
COMP17	4	160	L	ND	ND	ND	ND	ND	123	10/14/2024
COMP18	4	160	L	ND	ND	ND	ND	ND	66.2	10/14/2024
COIVIP 10		100		TAID TAID	IND	IND	IND	MA	00.2	10/14/2024
COMP19	4	320	L	ND	ND	ND	ND	ND	312	10/14/2024
-5/2011 12		PUR	III NA							
COMP20	4	160	L	ND	ND	ND	ND	ND	79.2	10/14/2024

PER I		1 2 2 3			18.7					
COMP21	4	240	L	ND	ND	ND	ND	ND	195	10/14/2024
COMP22	4	240	L	ND	ND	ND	ND	ND	200	10/14/2024
COMP23	10	240	L	ND	ND	ND	ND	ND	241	10/14/2024
COMP24	10	160	L E	ND	ND	ND	ND	ND	40.3	10/14/2024
COMP25	10	320	L	ND	ND	ND	ND	ND	372	10/14/2024
COMP26	10	320	L	ND	ND	ND	ND	ND	224	10/14/202
COMP27	10	320	L	ND	ND	ND	ND	ND	380	10/14/202
COMP28	4	240	L	ND	ND	ND	ND	ND	306	10/15/202
COMP29	4	320	L	ND	ND	ND	ND	ND	291	10/15/202
COMP30	8	400	L	ND	ND	25.6	ND	25.6	399	10/15/202
COMP31	8	160	L	ND	ND	ND	ND	ND	389	10/15/202
COMP32	4	400	L	ND	ND	ND	ND	ND	415	10/15/202
COMP33	4	160	L	ND	ND	ND	ND	ND	73.8	10/15/202
COMP34	4	240	L	ND	ND	ND	ND	ND	227	10/15/202
COMP35	4	320	L	ND	ND	ND	ND	ND	275	10/15/202
COMP36	4	400	L	ND	ND	ND	ND	ND	425	10/15/202
COMP37	4	320	L	ND	ND	ND	ND	ND	187	10/15/202
COMP38	4	160	L	ND	ND	ND	ND	ND	ND	10/16/202
COMP39	4	160	L	ND	ND	ND	ND	ND	127	10/16/202
COMP40	4	160	L	ND	ND	ND	ND	ND	118	10/16/202

SWCOMP1	4	240	L	ND	ND	ND	ND	ND	325	10/16/2024
				TLAN	ALC:		40.34		1013	
SWCOMP2	4	240	L	ND	ND	ND	ND	ND	340	10/16/2024
SWCOMP3	6	240	L	ND	ND	ND	ND	ND	327	10/16/2024
SWEGINITS				Dia.	Ekm			HAD	Jan	10/10/2021
SWCOMP4	4	240	L	ND	ND	ND	ND	ND	317	10/16/2024
SWCOMP5	4	240	L	ND	ND	ND	ND	ND	78.3	10/16/2024
SWCOMP6	4	320	L	ND	ND	ND	ND	ND	215	10/16/2024
SWCOMP7	8	320	L	ND	ND	ND	ND	ND	212	10/16/2024
SWCOMP8	4	320	L	ND	ND	ND	ND	ND	230	10/16/2024
SWCOMP9	4	320	L	ND	ND	ND	ND	ND	219	10/16/2024
SWCOMP10	4	320	L	ND	ND	ND	ND	ND	219	10/16/2024

Remediation Summary

Please find the remediation photos attached herein.

The impacted area of the Spill C release measured 4,312 square feet. During remediation, a total of 1,760 cubic yards of contaminated soil was excavated and transported to Gandy's Disposal. For backfilling, 2,040 cubic yards of caliche were pushed up and hauled from Gandy's Disposal to the location, along with 240 cubic yards of topsoil sourced from the Macks Bogel's Pit. The site was contoured and sloped back to its natural grade, then seeded. Backfilling and seeding were completed on January 13, 2025.

Attached to this report are the final site photos, the backfill composite map, and the laboratory analysis results.

Closure Request

On behalf of Mack Energy, Energy Staffing Services, LLC respectfully requests closure of incident NAPP2327834535 related to the produced water release that occurred in the pasture area of the West Mount Spill C.

Mack Energy and ESS hereby certify that all information contained in and attached to this report is true and correct. Both parties further certify that all applicable closure requirements for the West Mount Spill C release have been fully satisfied in accordance with regulatory standards. Should you have any questions or require additional information regarding this closure request, please contact the undersigned at (575) 390-6397 or (575) 393-9048, or by email at natalie@energystaffingllc.com.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

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

Email: natalie@energystaffingllc.com



Attachments

Spill Notification

Initial C141 and Spill Calculator Form

Impact Map

Initial Site Photos

Site Map

Rangeland and Vegetation Classification

Soil Map

FEMA National Flood Hazard Layer Map

Karst Geology Map

Watercourse Water Map

Groundwater Information

Groundwater Map

OSE POD Map
Delineation Sample Data
Delineation Sample Map and GPS Log
Lab Analysis for Delineation
Delineation Site Photos
Composite Notification
Composite Sample Data
Composite Sample Map and GPS Log
Lab analysis for Remediation
Remediation and Final Photos
Backfill map and Lab Analysis
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

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

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

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

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

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	-104.12433	NAFF2320333033
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
WEST MOUNT SPILL A	84.53	0	33.000002	-104.070796	
WEST MOUNT SPILL B	16.35	0	32.999326	-104.071112	
WEST MOUNT SPILL C	30.56	0	32.988705	-104.072056	
WEST MOUNT SPILL D	23.97	0	32.997553	-104.070702	
WEST MOUNT SPILL E	6.21	0	32.995899	-104.070484	
WEST MOUNT SPILL F	52.01	0	32.993548	-104.06973	
WEST MOUNT SPILL G	39.14	0	32.99116	-104.069688	
WEST MOUNT SPILL H	32.78	0	32.98947	-104.069673	
WEST MOUNT SPILL I	5.55	0	32.977062	-104.07104	
WEST MOUNT SPILL J	9.57	0	32.987071	-104.07267	

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

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

If you have any questions, please let me know.

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

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

Email: natalie@energystaffingllc.com



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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2327834535
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Responsible Party MACK ENERGY CORPORATION				OGRID 013837				
Contact Nam	ne MATT B	BUCKLES			Contact T	Telephone 575-703-1958			
Contact ema	il mattbuck	kles@mec.com			Incident # (assigned by OCD)				
Contact mail 88210	ing address	11344 Lovington	n Highway, Arte	sia NM					
			Location	n of R	Release S	Source			
Latitude 32.9	<u>988705</u>		(NAD 83 in a	decimal de					
Latitude 32.988705 Longitude -104.072056 (NAD 83 in decimal degrees to 5 decimal places) Site Name WEST MOUNT SPILL C Site Type PRODUCTION AREA Date Release Discovered 9/20/2023 API# (if applicable) 30-005-64381 Unit Letter Section Township Range County F 30 15S 29E CHAVES Surface Owner: State Federal Tribal Private (Name:									
Date Release	Discovered	9/20/2023			API# (if ap)	pplicable) 30-005-64381			
Unit Letter	Section	Township	Range		Cour	unty			
F	F 30 15S 29E CF				AVES				
Crude Oil			all that apply and attac			ic justification for the volumes provided below)			
□ Produced	Water	Volume Releas	ed (bbls) 30.56			Volume Recovered (bbls)0BBLS			
		Is the concentra	ation of dissolved >10,000 mg/l?	chloride	e in the	Yes No			
Condensa	ite	Volume Releas	ed (bbls)			Volume Recovered (bbls)			
☐ Natural G	as	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)			
Other (de	scribe)	Volume/Weigh	t Released (provi	de units)	Volume/Weight Recovered (provide units)			
Cause of Rel	ease								
The water to	ansfer com	pany Well Sprin	ig found a failur	e on the	ir lay flat lii	line, releasing the fluid to the pasture area.			
		-			-	-			

Page 2

State of New Mexico Oil Conservation Division

	0 0	
Incident ID	NAPP2327834535	
District RP		
Facility ID		
Application ID		

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? DUE TO VOLUME OF RELEASE
19.15.29.7(A) NMAC?	DOE TO VOLUME OF RELEASE
⊠ Yes □ No	
Z 145 Z 110	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Email was sent was sent	to the OCD, Bratcher, Hamlet, Venegas, on 9/22 at 4:12pm
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
_	is 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.
<u> </u>	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have not been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation 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
failed to adequately investig	ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	of 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:	lu Gladden Date: 10/5/23
email: <u>natalie@energy</u>	staffingll.com Telephone: 575-390-6397
OCD Only	
	Date: 10/6/2023
Received by: Shelly We	

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 272802

CONDITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	272802
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
scwells	None	10/6/2023

MACK ENERGY - WEST MOUNT SPILL C

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	292.19	28.28	0.083	685.84006	30.56	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

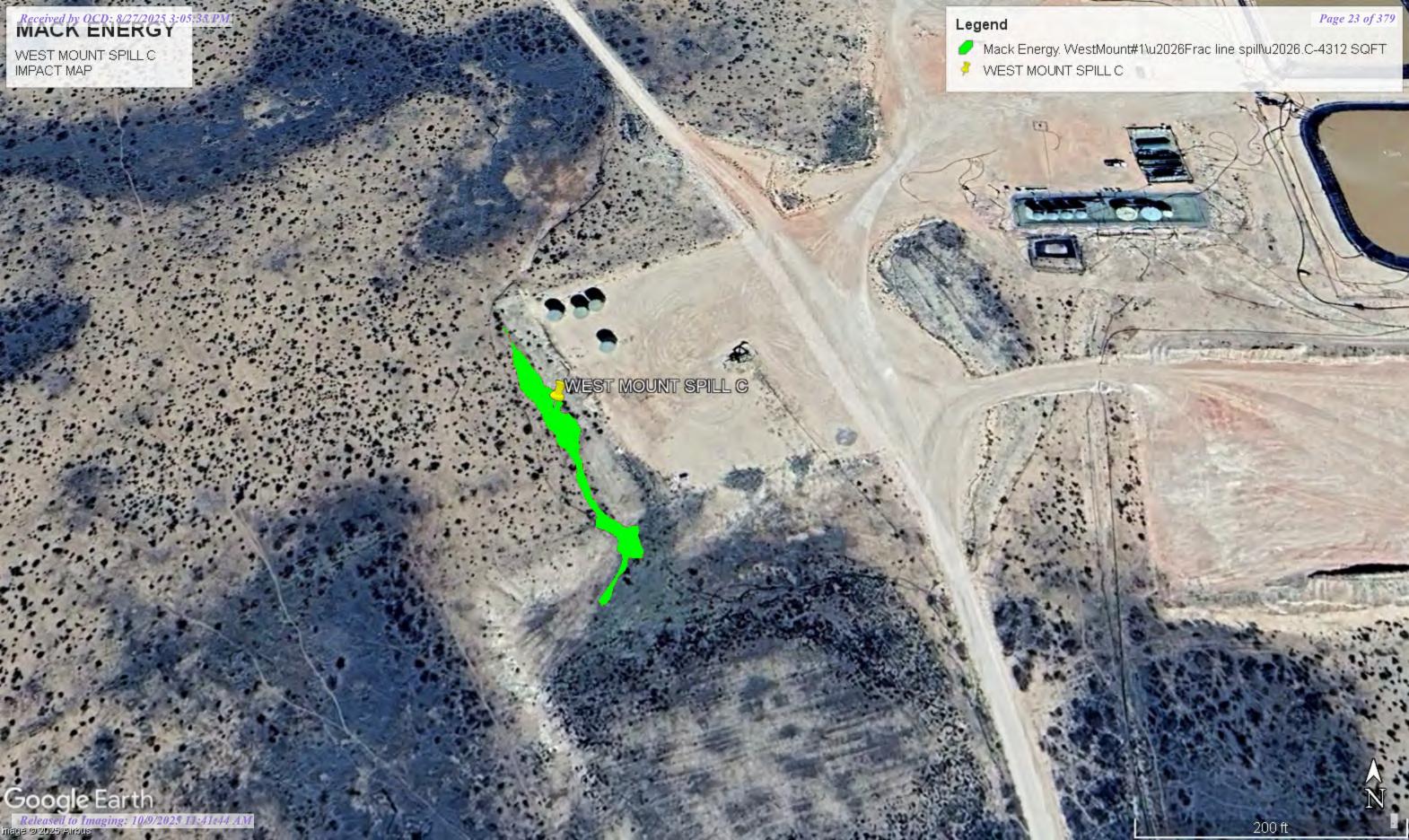
NOTE: This is an **estimate** tool designed for quick field estimates of whether a C-141 should be requred (*l.e. a release is estimated to be greater than or less than 5 barrel volumes*)

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)



MACK ENERGY: WEST MOUNT SPILL C INITIAL SITE PHOTOS











WEST MOUNT SPILL C

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 C

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.

WEST MOUNT SPILL C

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

WEST MOUNT SPILL C

Rangela	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			
TS—Tencee-Sotim association										

WEST MOUNT SPILL C

Map unit symbol and soil	Ecological Site, Plant	Total d	lry-weight prod	duction	Characteristic rangeland	Compositio n		
name	Association, or Habitat Type	Favorable year	Normal year	Unfavorable year	or forest understory vegetation		Rangeland	Forest understory
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt	
Tencee	Shallow (R070BC025NM)	500	375	125	black grama	20		
					bush muhly	20		
					creosotebush	10		
					other perennial forbs	10		
				other perennial grasses	10			
					broom snakeweed	5		
				Eriogonum	5			
				low woollygrass	5			
				mariola	5			
					rabo de ardilla	5		
					sand dropseed	5		
					crown of thorns	3		
					fourwing saltbush	3		
					javelina brush	2		
					Nevada jointfir	2		
Sotim	Sandy (R070BD004NM)	1,200	_	600	black grama	35		
					dropseed	15		
					other perennial forbs	10		
					blue grama	5		
					bush muhly	5		
					little bluestem	5		
				other shrubs	5			
				other perennial grasses	5			
					plains lovegrass	5		
					threeawn	5		
USDA Natural Re	sources		\\/e	b Soil Survey	yucca	5		2/19/20

WEST MOUNT SPILL C

Data Source Information

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

Survey Area Data: Version 19, Sep 3, 2024



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

MAP LEGEND

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Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

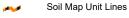
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit 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 19, Sep 3, 2024

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 C

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TS Tencee-Sotim association		1.0	100.0%
Totals for Area of Interest		1.0	100.0%

Received by OCD: 8/27/2025 3:05:35 PM National Flood Hazard Layer FIRMette





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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF 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 **GENERAL** - - - Channel, Culvert, or Storm Sewer 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

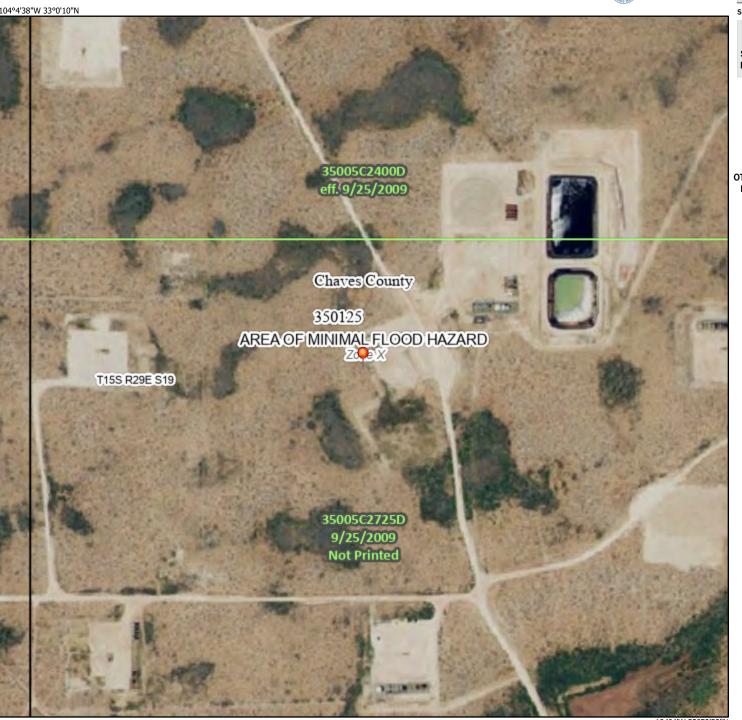
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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

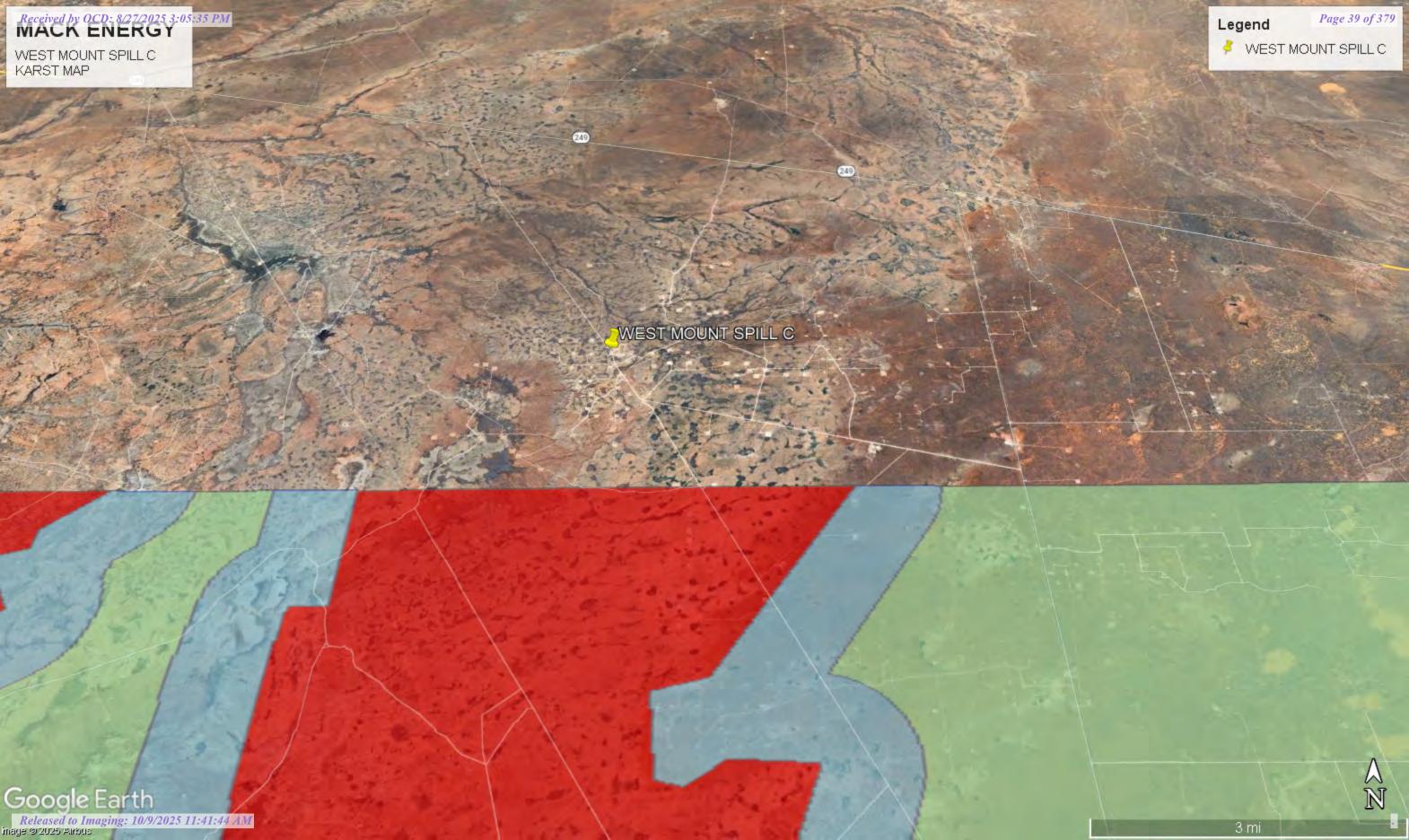
an authoritative property location.

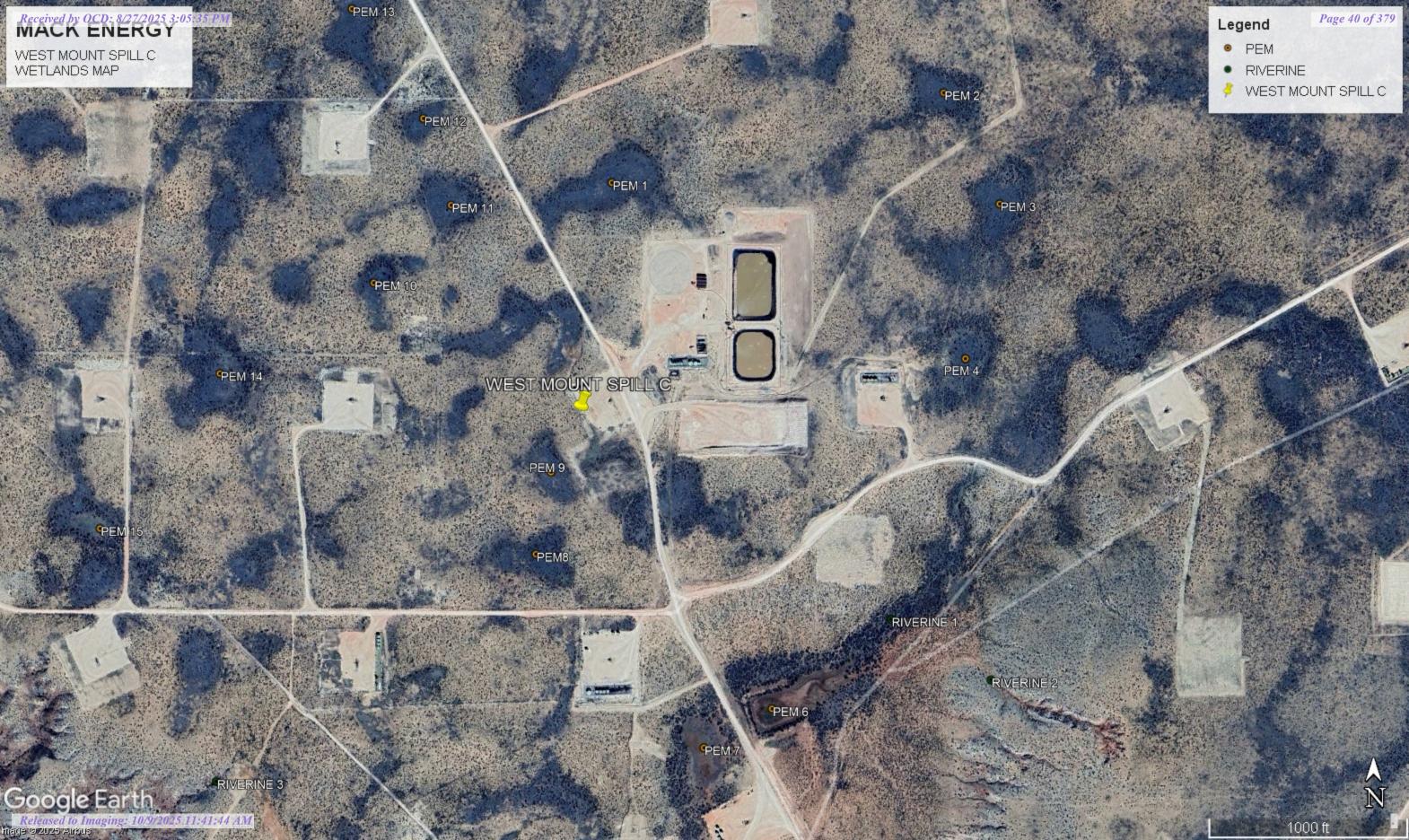
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/20/2025 at 8:23 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2,000









New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No report data available.

UTM Filters (in meters):

Easting: 586701.071 **Northing:** 3651500.652

Radius: 1000

* UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No report data available.

UTM Filters (in meters):

Easting: 586701.071 **Northing:** 3651500.652

Radius: 5000

* UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth	Depth Water	Water Column
RA 12428		RA	СН	SE	NE	NW	21	15S	28E	580579.1	3652317.4	•	6176	170	125	45
RA 12429 POD1		RA	СН	NW	NW	SE	32	15S	28E	579092.6	3648401.3	•	8215	62	27	35
RA 10280	0	RA	СН	SE	SW	SW	17	15S	28E	578501.0	3652680.0 *		8284	70	40	30
RA 09248		RA	СН	SE	NW	SW	17	15S	28E	578482.5	3653143.9	•	8381	145	45	100
RA 09059	0	RA	СН	NE	SE	SE	18	15S	28E	578099.0	3652875.0 *	•	8711	110	35	75
<u>L 14514 POD1</u>		L	LE	NE	NE	NW	32	15S	36E	595493.7	3649622.7		8990	208	77	131

Average Depth to Water: 58 feet

Minimum Depth: 27 feet

Maximum Depth: 125 feet

Record Count: 6

UTM Filters (in meters):

Easting: 586701.071 **Northing:** 3651500.652

Radius: 10000

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^{*} UTM location was derived from PLSS - see Help

Well Tag

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

NAD83 UTM in meters

Q64 Q16 Q4 Sec Tws Rng X Y Map

15S

28E

580579.1

3652317.4

* UTM location was derived from PLSS - see Help

SE

NE

NW

POD Nbr

RA 12428

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

21

Water Bearing Stratifications:

Тор	Bottom	Description
125	140	Sandstone/Gravel/Conglomerate
140	160	Sandstone/Gravel/Conglomerate
160	170	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
125	170

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2/19/25 9:35 AM MST Point of Diversion Summary

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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 X Map Sec 579092.6 RA 12429 POD1 NW NW SE 32 15S 28E 3648401.3

* UTM location was derived from PLSS - see Help

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

Water Bearing Stratifications:

Тор	Bottom	Description
27	33	Sandstone/Gravel/Conglomerate
33	62	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
22	62

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2/19/25 9:36 AM MST 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 Sec Tws Rng Χ Map 578501.0 3652680.0 * RA 10280 SE SW SW 17 15S 28E

* UTM location was derived from PLSS - see Help

Driller License:	1490	Driller Company:	FERNANDO'S WATER WELL		
Driller Name:	CARREON, FE	ERNANDO			
Drill Start Date:	2002-06-20	Drill Finish Date:	2002-07-15	Plug Date:	
Log File Date:	2003-04-23	PCW Rcv Date:		Source:	Shallow
Pump Type:	SUBMER	Pipe Discharge Size:	1.25	Estimated Yield:	10
Casing Size:	5.00	Depth Well:	70	Depth Water:	40

Water Bearing Stratifications:

Тор	Bottom	Description
1	70	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
40	70

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2/19/25 9:36 AM MST Point of Diversion Summary

NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Tws Χ Υ Мар Sec Rng NA RA 09248 SE NW SW 17 15S 28E 578482.5 3653143.9

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

* UTM location was derived from PLSS - see Help

Driller License: 1344 **Driller Company:** ANDERSON, RAYMOND **Driller Name:** RAYMOND ANDERSON **Drill Start Date: Drill Finish Date:** 1996-07-13 Plug Date: 1996-07-10 Shallow Log File Date: 1996-07-25 **PCW Rcv Date:** Source: Pump Type: Pipe Discharge Size: **Estimated Yield:** Casing Size: 4.50 Depth Well: 145 Depth Water: 45

Water Bearing Stratifications:

Тор	Bottom	Description
50	60	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
45	100

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2/19/25 9:37 AM MST 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 Χ Υ Map Sec Rng RA 09059 NE SE SE 18 15S 28E 578099.0 3652875.0 *

* UTM location was derived from PLSS - see Help

Driller License: 1344 **Driller Company:** ANDERSON, RAYMOND **Driller Name:** RAYMOND ANDERSON **Drill Start Date: Drill Finish Date:** Plug Date: 1995-11-13 1996-01-15 Shallow Log File Date: 1997-02-08 **PCW Rcv Date:** Source: Pump Type: Pipe Discharge Size: **Estimated Yield:** Casing Size: 4.50 Depth Well: 110 Depth Water: 35

Water Bearing Stratifications:

Тор	Bottom	Description
60	65	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
30	90

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2/19/25 9:37 AM MST 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 X 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:**

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 9:18 AM MST Point of Diversion Summary

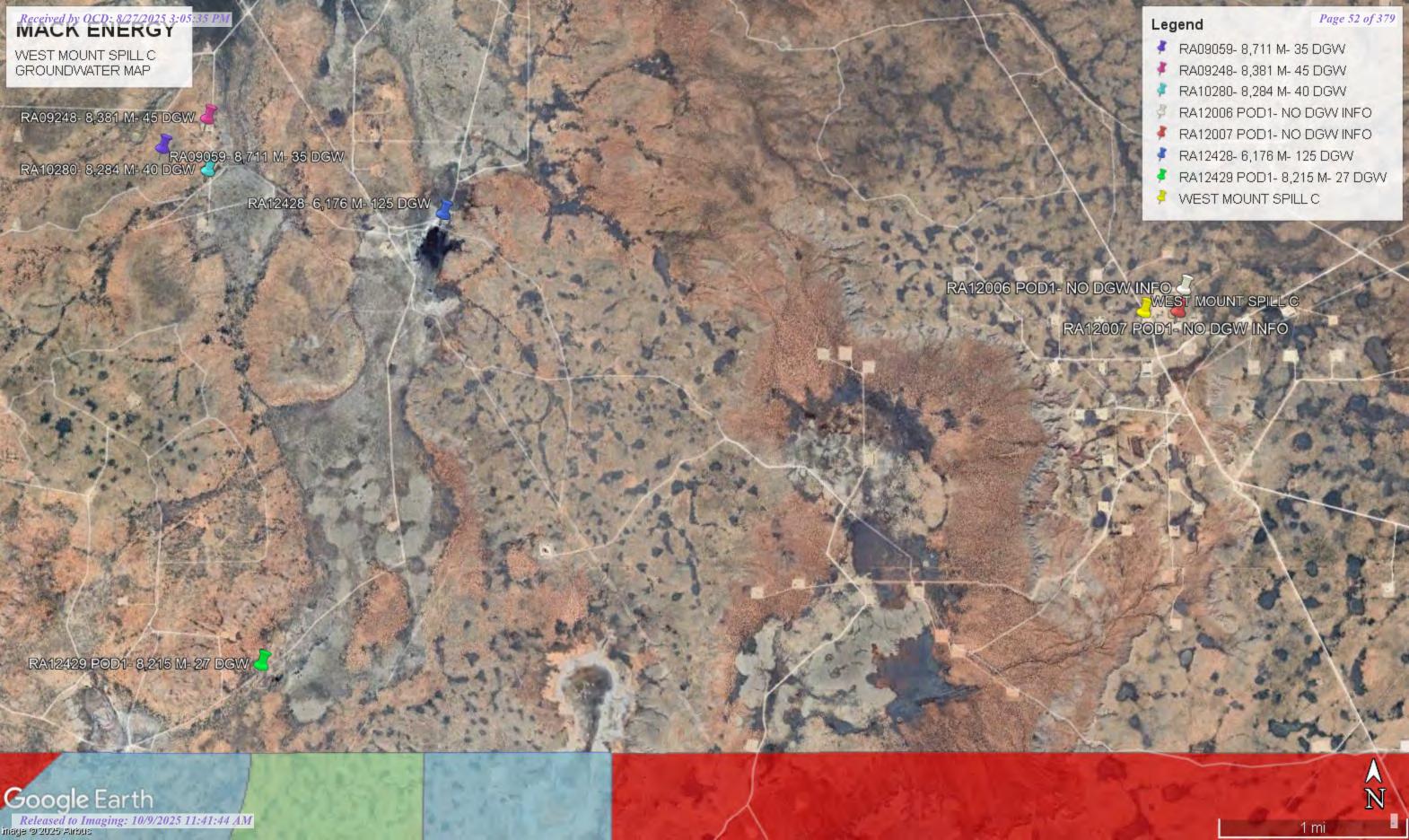
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quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Tws Rng X Map Sec RA 12006 POD1 29E 587049.3 NE NE SW 19 15S 3651703.3 * UTM location was derived from PLSS - see Help **Driller License: 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:**

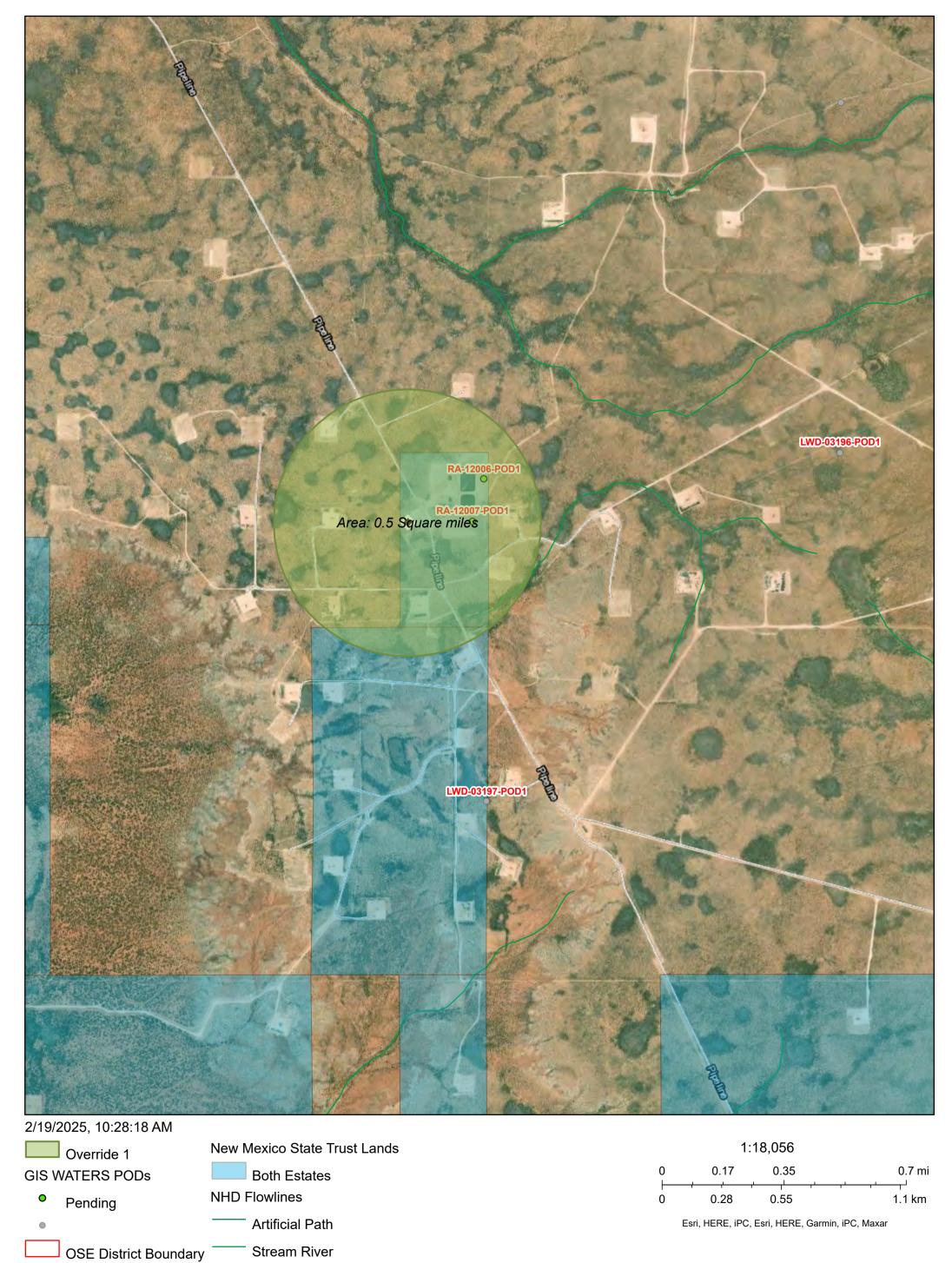
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2/19/25 9:21 AM MST Point of Diversion Summary

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OSE POD Location Map



Company Name: MACK Location Name: WEST MOUNT SPILL C Release Date:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	320	L	ND	ND	ND	ND	ND	331	30	Hotes
	2	160									
	4	320									
	6	320	L	ND	ND	ND	ND	ND	254		
SP2	SURF	1440	L	ND	ND	ND	ND	ND	2030		
	2	240									
	4	480									
	6	400	L	ND	ND	ND	ND	ND	497		
SP3	SURF	2720	L	ND	ND	ND	ND	ND	2630		
	2	640									
	4	640									
	6	400									
	8	400	L	ND	ND	ND	ND	ND	311		
SP4	SURF	1760	L	ND	ND	ND	ND	ND	2060		
	2	240									
	4	400									
	6	320	L	ND	ND	ND	ND	ND	225		
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	19600		
	2	80									
	4	560									
	6	320	L	ND	ND	ND	ND	ND	332		
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	7210		
	2	240									
	4	400									
	6	320	L	ND	ND	ND	ND	ND	229		

SP7	SURF	480	L	ND	ND	ND	ND	ND	832	
	2	320								
	4	480								
	6	320	L	ND	ND	ND	ND	ND	304	
SP8	SURF	2080	L	ND	ND	ND	ND	ND	3480	
	2	400								
	4	640								
	6	400								
	8	480								
	10	480	L	ND	ND	ND	ND	ND	404	
SP9	SURF	3280	L	ND	ND	ND	ND	ND	3410	
	2	400								
	4	480								
	6	400	L	ND	ND	ND	ND	ND	287	
SP10	SURF	1440	L	ND	ND	ND	ND	ND	3990	
	2	160								
	4	400								
	6	320	L	ND	ND	ND	ND	ND	342	
SP11	SURF	3680	L	ND	ND	30.5	63	93.5	1590	
	2	160								
	4	240								
	6	240	L	ND	ND	ND	ND	ND	51.1	
SP12	SURF	160	L	ND	ND	ND	94	94	25.2	
	2	160								
	4	240								
	6	240	L	ND	ND	ND	ND	ND	25.8	
SP13	SURF	1120	Н	ND	ND	53.5	194	247.5	1240	
	2	2240								

	4	400								
	6	240								
	8	240								
	10	160								
	12	160	L	ND	ND	ND	ND	ND	22	
SP14	SURF	160	H	ND	ND	34.5	207	241.5	62.2	
	2	1040								
	4	320								
	6	160	L	ND	ND	ND	ND	ND	ND	
SW1	SURF	320	L	ND	ND	ND	ND	ND	252	
	1	640								
	2	240								
	3	160	L	ND	ND	ND	ND	ND	31.3	
SW2	SURF	2400	L	ND	ND	ND	ND	ND	1590	
	1	720								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	36.6	
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	4090	
	1	640								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	147	
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	8800	
	1	560								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	228	
SW5	SURF	3200	L	ND	ND	ND	ND	ND	4680	
	1	720								
	2	160								

	3	160	L	ND	ND	ND	ND	ND	76.1	
SW6	SURF	3520	L	ND	ND	ND	ND	ND	2120	
	1	1040								
	2	1200								
	3	1280								
	4	880								
	5	240								
	6	160	L	ND	ND	ND	ND	ND	63.8	
SW7	SURF	>4000	L	ND	ND	ND	ND	ND	878	
	1	>4000								
	2	2320								
	3	1120								
	4	640								
	5	320								
	6	160	L	ND	ND	ND	ND	ND	52.6	
SW8	SURF	800	L	ND	ND	ND	ND	ND	10400	
	1	640								
	2	320								
	3	240	L	ND	ND	ND	ND	ND	88.1	
SW9	SURF	240	L	ND	ND	ND	ND	ND	ND	
	1	880								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	119	
SW10	SURF	2800	L	ND	ND	ND	ND	ND	4300	
	1	640								
	2	240								
	3	160	L	ND	ND	ND	ND	ND	ND	
SW11	SURF	1440	L	ND	ND	ND	ND	ND	1400	

	1	720								
	1	720								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	102	
SW12	SURF	640	L	ND	ND	ND	ND	ND	534	
	1	560								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	ND	
SW13	SURF	160	L	ND	ND	ND	ND	ND	72.5	
	1	720								
	2	320								
	3	240	L	ND	ND	ND	ND	ND	ND	
SW14	SURF	>4000	L	ND	ND	ND	ND	ND	5160	
	1	960								
	2	400								
	3	160	L	ND	ND	ND	ND	ND	68.2	
	_	100	_	IND	ND	ND	ND	ND	00.2	
		100		ND	ND	- ND	ND	ND	00.2	
SW15	SURF	>4000	L	ND	ND	ND	ND	ND	13400	
SW15										
SW15	SURF	>4000								
SW15	SURF 1	>4000 960								
SW15	SURF 1 2	>4000 960 640								
SW15	SURF 1 2 3	>4000 960 640 480								
SW15	SURF 1 2 3 4	>4000 960 640 480 1760								
SW15	SURF 1 2 3 4 5	>4000 960 640 480 1760 720								
SW15	SURF 1 2 3 4 5	>4000 960 640 480 1760 720								
SW15	SURF 1 2 3 4 5 6 7	>4000 960 640 480 1760 720 720 320	L	ND	ND	ND	ND	ND	13400	
SW15	SURF 1 2 3 4 5 6 7	>4000 960 640 480 1760 720 720 320	L	ND	ND	ND	ND	ND	13400	
	SURF 1 2 3 4 5 6 7	>4000 960 640 480 1760 720 720 320 160	L	ND ND	ND ND	ND ND	ND ND	ND ND	13400	
	SURF 1 2 3 4 5 6 7 8 SURF	>4000 960 640 480 1760 720 720 320 160	L	ND ND	ND ND	ND ND	ND ND	ND ND	13400	
	SURF 1 2 3 4 5 6 7 8 SURF 1	>4000 960 640 480 1760 720 720 320 160 320 800	L	ND ND	ND ND	ND ND	ND ND	ND ND	13400	
	SURF 1 2 3 4 5 6 7 8 SURF 1 2	>4000 960 640 480 1760 720 720 320 160 320 800 240	L	ND ND ND	ND ND ND	ND ND	ND ND	ND ND	13400 103 82.6	

SW17	SURF	160	L	ND	ND	ND	ND	ND	ND	
	1	640								
	2	160								
	3	160	L	ND	ND	ND	ND	ND	106	
SW18	SURF	>4000	Н	ND	ND	28.2	88	116.2	7060	
	1	880								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	74.3	
SW19	SURF	>4000	L	ND	ND	ND	ND	ND	18100	
	1	800								
	2	1040								
	3	640								
	4	640								
	5	320								
	6	160	L	ND	ND	ND	ND	ND	66.4	



COMPANY: MACK ENERGY LOCATION: WEST MOUNT SPILL C

POINT	LATITUDE	LONGITUDE
SP1	32.998632°	-104.072039°
SP2	32.998564°	-104.071996°
SP3	32.998493°	-104.071946°
SP4	32.998428°	-104.071914°
SP5	32.998403°	-104.071856°
SP6	32.998342°	-104.071853°
SP7	32.998263°	-104.071819°
SP8	32.998176°	-104.071775°
SP9	32.998124°	-104.071731°
SP10	32.998109°	-104.071665°
SP11	32.998065°	-104.071693°
SP12	32.998048°	-104.071646°
SP13	32.998010°	-104.071687°
SP14	32.997947°	-104.071726°
SW1	32.998756°	-104.072121°
SW2	32.998603°	-104.072050°
SW3	32.998606°	-104.071992°
SW4	32.998491°	-104.071978°
SW5	32.998494°	-104.071895°
SW6	32.998397°	-104.071912°
SW7	32.998414°	-104.071835°
SW8	32.998322°	-104.071856°
SW9	32.998317°	-104.071825°
SW10	32.998244°	-104.071828°
SW11	32.998235°	-104.071796°
SW12	32.998125°	-104.071772°
SW13	32.998150°	-104.071734°
SW14	32.998058°	-104.071709°
SW15	32.998126°	-104.071654°
SW16	32.998038°	-104.071636°
SW17	32.997985°	-104.071703°
SW18	32.997975°	-104.071721°
SW19	32.997924°	-104.071749°

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 C.

Work Order: E311125

Job Number: 20046-0001

Received: 11/16/2023

Revision: 2

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 C.

Workorder: E311125

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 C..

The analytical test results summarized in this report with the Project Name: Frac Line Spill C. 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

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Alexa Michaels

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labadmin@envirotech-inc.com

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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 C.	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu.
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 17:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-SURF	E311125-01A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP2-SURF	E311125-02A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP3-SURF	E311125-03A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP4-SURF	E311125-04A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP5-SURF	E311125-05A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP6-SURF	E311125-06A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP7-SURF	E311125-07A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP8-SURF	E311125-08A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP9-SURF	E311125-09A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP10-SURF	E311125-10A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP11-SURF	E311125-11A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP12-SURF	E311125-12A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP13-SURF	E311125-13A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP14-SURF	E311125-14A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.

Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP1-SURF E311125-01

		E511125-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
p-Xylene	ND	0.0250	1	11/16/23	11/16/23	
o,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346076
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		101 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: BA		Batch: 2346086
Chloride	331	20.0	1	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP2-SURF

		E311125-02				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2346076
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		99.3 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2346086
Chloride	2030	20.0	1	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP3-SURF

		E311125-03				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2346076
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		91.5 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2346086
Chloride	2630	40.0	2	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP4-SURF

		E311125-04				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2346076
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		102 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2346086
Chloride	2060	40.0	2	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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SP5-SURF

		E311125-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2346076
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		86.6 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2346086
Chloride	19600	400	20	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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SP6-SURF

		E311125-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346076
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	Anal	yst: BA		Batch: 2346086
Chloride	7210	200	10	11/16/23	11/16/23	·



Mack Energy	Project Name:	Frac Line Spill C.	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP7-SURF

		E311125-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2346081	
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2346081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2346076	
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		99.3 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346086
Chloride	832	20.0	1	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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SP8-SURF

E311125-08

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2346076
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		91.0 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2346086
Chloride	3480	40.0	2	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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SP9-SURF

		E311125-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2346076
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		90.8 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2346086
Chloride	3410	40.0	2	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP10-SURF

11	25-	-1	0
	11	1125-	1125-1

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2346076
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		93.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2346086
Chloride	3990	40.0	2	11/16/23	11/16/23	

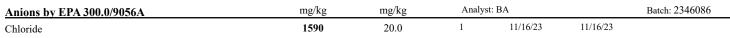


Mack Energy	Project Name:	Frac Line Spill C.	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP11-SURF E311125-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	11/16/23	11/16/23	

Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	30.5	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	63.0	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	A	Analyst: BA		Batch: 2346086



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP12-SURF

E3			

	Penarting				
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346081
ND	0.0250	1	11/16/23	11/16/23	
ND	0.0250	1	11/16/23	11/16/23	
ND	0.0250	1	11/16/23	11/16/23	
ND	0.0250	1	11/16/23	11/16/23	
ND	0.0500	1	11/16/23	11/16/23	
ND	0.0250	1	11/16/23	11/16/23	
	95.0 %	70-130	11/16/23	11/16/23	
mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2346081
ND	20.0	1	11/16/23	11/16/23	
	90.5 %	70-130	11/16/23	11/16/23	
mg/kg	mg/kg	Ana	alyst: KM		Batch: 2346076
ND	25.0	1	11/16/23	11/17/23	
94.4	50.0	1	11/16/23	11/17/23	
	99.5 %	50-200	11/16/23	11/17/23	
	ma 0/150	Δna	alyst: BA		Batch: 2346086
mg/kg	mg/kg	7 1110	aryst. D/1		Daten. 2340000
	mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0 90.5 % mg/kg mg/kg mg/kg ND 25.0 94.4 50.0	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 25.0 % 70-130 mg/kg mg/kg Ana Mg/kg mg/kg Ana ND 25.0 1 94.4 50.0 1	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 0.0250 1 11/16/23 ND 0.0500 1 11/16/23 ND 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 94.4 50.0 1 11/16/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/16/23 11/16/23 ND 0.0250 1 11/16/23 11/16/23 ND 0.0250 1 11/16/23 11/16/23 ND 0.0500 1 11/16/23 11/16/23 ND 0.0250 1 11/16/23 11/16/23 ND 0.0250 1 11/16/23 11/16/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/16/23 11/16/23 mg/kg mg/kg Analyst: RAS ND 20.0 1 11/16/23 11/16/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/16/23 11/17/23 94.4 50.0 1 11/16/23 11/17/23



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP13-SURF

E3			

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	53.5	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	194	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		95.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2346086
Chloride	1240	20.0	1	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

SP14-SURF

E311125-14

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346081
Benzene	ND	0.0250	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/16/23	
Toluene	ND	0.0250	1	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RAS		Batch: 2346081
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	34.5	25.0	1	11/16/23	11/17/23	_
Oil Range Organics (C28-C36)	207	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	An	alyst: BA		Batch: 2346086
	62.2	20.0		11/16/23	11/16/23	



Frac Line Spill C. Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 11/17/2023 5:20:52PM **Volatile Organics by EPA 8021B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2346081-BLK1) Prepared: 11/16/23 Analyzed: 11/16/23 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 7.79 8.00 97.4 70-130 LCS (2346081-BS1) Prepared: 11/16/23 Analyzed: 11/16/23 4.80 96.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.64 0.0250 5.00 92.9 70-130 4.82 0.0250 5.00 96.4 70-130 Toluene 4.77 95.5 o-Xylene 0.0250 5.00 70-130 9.62 10.0 96.2 70-130 0.0500 p.m-Xvlene 95.9 70-130 14.4 15.0 Total Xylenes 0.0250 8.00 98.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.86 Matrix Spike (2346081-MS1) Source: E311125-04 Prepared: 11/16/23 Analyzed: 11/16/23 5.04 0.0250 5.00 ND 54-133 Benzene ND 97.5 61-133 Ethylbenzene 4.87 0.0250 5.00 Toluene 5.05 0.0250 5.00 ND 101 61-130 ND 100 63-131 5.00 5.00 0.0250 o-Xylene p,m-Xylene 10.1 0.0500 10.0 ND 101 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.81 8.00 Matrix Spike Dup (2346081-MSD1) Source: E311125-04 Prepared: 11/16/23 Analyzed: 11/16/23 5.18 0.0250 5.00 ND 54-133 2.62 61-133 2.50 5.00 0.0250 5.00 ND 99.9 20 Ethylbenzene 61-130 Toluene 5.19 0.0250 5.00 ND 104 2 57 20 5.12 5.00 ND 102 63-131 2.44 20 o-Xylene 0.0250 2.56 10.3 10.0 ND 103 63-131 20 p,m-Xylene 0.0500 Total Xylenes 15.4 0.0250 15.0 ND 103 63-131 2.52 20

8.00

97.8

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.82

Mack Energy	Project Name:	Frac Line Spill C.	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

Artesia NM, 88210		Project Manage		talie Gladder	ı			1	1/17/2023 5:20:52PN
	Non	halogenated	Organics l	y EPA 80	15D - GI	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 (2346081-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			
LCS (2346081-BS2)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			
Matrix Spike (2346081-MS2)				Source:	E311125-0)4	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			
Matrix Spike Dup (2346081-MSD2)				Source:	E311125-0)4	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	88.0	70-130	0.928	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Mack Energy	Project Name:	Frac Line Spill C.	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 5:20:52PM

Artesia NWI, 88210		Project Manage	r: Na	name Gradder	l			11	717/2023 3.20.32F1
	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 (2346076-BLK1)							Prepared: 1	1/16/23 Ana	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			
LCS (2346076-BS1)							Prepared: 1	1/16/23 Ana	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2346076-MS1)				Source:	E311101-(03	Prepared: 1	1/16/23 Ana	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			
Matrix Spike Dup (2346076-MSD1)				Source:	E311101-(03	Prepared: 1	1/16/23 Ana	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



Mack Energy		Project Name:		rac Line Spill	C.				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladder	1				11/17/2023 5:20:52PM
		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 (2346086-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346086-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2346086-MS1)				Source:	E311125-()8	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	3560	40.0	250	3480	34.5	80-120			M4
Matrix Spike Dup (2346086-MSD1)				Source:	E311125-()8	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	3560	40.0	250	3480	34.9	80-120	0.0306	20	M4

QC Summary Report Comment:

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



Definitions and Notes

Г	Mack Energy	Project Name:	Frac Line Spill C.	
ı	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 17:20

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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Client: A	tack Ex	20194			Bill To			-	La	ab Us	e Onl	V			-		TA	T	EPA P	rogram
Project:	Long XI	ne x	ill.		Attention: ENERGY STAFFING SE	RVICES	Lab	WO#			Job N	lum			1D	2D	3D	Standard	CWA	SDWA
Project N	Manager:	Mosto	Lie. C	spadden	Address: 2724 NW COUNTY RD		E3	311	12	5	20	W	000	SOL		8				
Address:					City, State, Zip HOBBS, NM 8824	0						Analysis and M		lethod						RCRA
City, Stat	te, Zip				Phone: 575-393-9048													100		
Phone:					Email: NATALIE@ENERGYSTAFFING	ILLC.COM	015	015											State	
Email:					BRITTNEY@ENERGYSTAFFIN	GLLC.COM	3y 8() 8 KG	21	00	0	0.00		- 1	Z				UT AZ	TX
Report d	ue by:						ORO	ORO I	y 80	y 826	601	de 30				X		8		
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	ВСВОС			Remarks	
	4/1/23	9	1	Sp1-Swit		1									P					
				APR - Don't	,	2														
				495 - Dwy	}	3														
				Spil - Swit		4														
				SP5- Surt		5														
				SpG-Surt		Q														
				SP7-Sut		7														
				SP8-Suf		8														
				SP9-Swit		9														
	11/13	5	1	spio-surt		10									9					
Addition	nal Instruc	tions:																		
0.00				rticity of this sample. I an	n aware that tampering with or intentionally mistal action. Sampled by Japa	Alcura	le locat	ion,										ceived on ice the day 6 °C on subsequent d		led or received
Sose L	ed by: (Sign	W/	Dat	4/23	Received by: (Signature) Received by: (Signature)	Date 11-15	2	Time	14	30	Rece	eive	d on i	ce:		ab U	se On	ly		
uli	CLULL ned by: (Sign	Cus	II-	15-23 177	Received by: (Signature)	Date Date	23	Time	00)	T1_			_,	T2			<u>T3</u>		
	.ca by, Joigh			9	The second of the second						_		np °C		1		2.2.2.0			
Sample Ma	trix: S - Soil, S	d - Solid, Sg	- Sludge, A -	Aqueous, O - Other		Containe													alicale af al	abarra
Note: San samples is	nples are dis s applicable (carded 30 only to tho	days after r se samples	esults are reported un received by the labora	less other arrangements are made. Hazardo atory with this COC. The liability of the labora	us samples wi tory is limited	ll be re to the	amou	d to cl nt paid	d for a	on the	repor	t.	e clier	nt exp	pense	. The	report for the an	arysis of the	above



Lab

Number

13

Bill To
Attention: ENERGY STAFFING SERVICES

Email: NATALIE@ENERGYSTAFFINGLLC.COM

BRITTNEY@ENERGYSTAFFINGLLC.COM

Address: 2724 NW COUNTY RD

Phone: 575-393-9048

City, State, Zip HOBBS, NM 88240

Lab Use Only

Job Number

200410000

Analysis and Method

Lab WO# E 311125 SDWA

RCRA

EPA Program

CWA

State

Remarks

NM CO UT AZ TX

TAT

1D 2D

0

8

3D Standard

Address:

Phone:

Email:

Sampled

City, State, Zip

Report due by:

Sampled

Client: Mark Cherry

Project: Frae Fine Soil C.
Project Manager: Natalie Gloddin

No. of

Containers

Sample ID

of 11- Durb

Spid-Surt

DR14-DUNG

26
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22
age
<u>ٽ</u>

Received by OCD: 8/27/2025 3:05:35 PM

Additional Instructions:									
I, (field sampler), attest to the validity and date or time of collection is considered fr			1. //	abelling the sample loca	arion,			be received on ice the day they are than 6 °C on subsequent days.	sampled or receiv
Relinquished by (Signature)	Date 11/14/13	Time 5	Received by: (Signature)	- 11-15-2	3 1430	Received on ic	Lab Use ce: (Ŷy N	Only	
Relinquished by: (Signature)	ll 15	23 179 2	Received by: (8ignature)	11-10-20	3 Time	T1	<u>T2</u>	<u>T3</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signatura)	Date	Time	AVG Temp °C_	4	1.5	
Sample Matrix: S - Soil, Sd - Solid, Sg - Slu	idge, A - Aqueous,	O - Other		Container Ty	pe: g - glass, p	- poly/plastic, ag - a	amber glass, v - \	/OA	200000000000000000000000000000000000000
Note: Samples are discarded 30 day samples is applicable only to those s	s after results ar	e reported unless oth	ner arrangements are made. Hazard	ous samples will be atory is limited to the	returned to clier e amount paid f	nt or disposed of at the or on the report.	e client expense.	The report for the analysis o	f the above



Printed: 11/16/2023 10:47:04AM

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.

Da	l analyses?	11/16/23 0 11/15/23 1 11/17/23 1 Yes Yes Yes No Yes Yes		Log	k Order ID: ged In By:	E311125 Jordan Montano	
the COC? s per sampling site location match by client or carrier? s, signatures, dates/times, requested within holding time? as pH which should be conducted in the ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	the COC danalyses?	Yes Yes Yes No Yes	7:00 (1 day TAT)		ged In By:	Jordan Montano	
the COC? s per sampling site location match by client or carrier? s, signatures, dates/times, requested within holding time? as pH which should be conducted in the ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	the COC danalyses?	Yes Yes Yes No Yes					
s per sampling site location match by client or carrier? , signatures, dates/times, requested within holding time? as pH which should be conducted in the ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	l analyses?	Yes Yes No Yes	Carrier: <u>C</u>	<u>Courier</u>			
s per sampling site location match by client or carrier? , signatures, dates/times, requested within holding time? as pH which should be conducted in the ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	l analyses?	Yes Yes No Yes	Carrier: <u>C</u>	<u>Courier</u>			
s per sampling site location match by client or carrier? , signatures, dates/times, requested within holding time? as pH which should be conducted in the ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	l analyses?	Yes Yes No Yes	Carrier: <u>C</u>	Courier			
y client or carrier? , signatures, dates/times, requested vithin holding time? as pH which should be conducted in the ne, are not included in this disucssion. FAT) ard TAT, or Expedited TAT? ed? in good condition?	l analyses?	Yes No Yes	Carrier: <u>C</u>	<u>Courier</u>			
within holding time? as pH which should be conducted in the ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	•	No Yes		<u></u>			
as pH which should be conducted in the ne, are not included in this disucssion. FAT) and TAT, or Expedited TAT? ed? in good condition?	e field,						
ne, are not included in this disucssion. TAT) ard TAT, or Expedited TAT? ed? in good condition?	e field,	Yes	Ī				
ard TAT, or Expedited TAT? ed? in good condition?		Yes			Comment	s/Resolution	
ed? in good condition?		Yes		m; 1 1	, .	1.1. 0001	
in good condition?				-	not provi	ded on COC by	
in good condition?				client.			
		Yes					
intact, i.e., not broken?		Yes					
		Yes					
s present?		No					
ty seals intact?		NA					
e? If yes, the recorded temp is 4°C, i.e. vation is not required, if samples are re-		Yes					
temperature. Actual sample ter	nperature: 4°0	<u>C</u>					
s present?		No					
d in VOA Vials?		NA					
6-8 mm (pea sized or less)?		NA					
uded for VOC analyses?		NA					
lected in the correct containers?		Yes					
eight or number of sample containers	s collected?	Yes					
lled out with the minimum inform	ation:						
		168					
els indicate the samples were prese	erved?	No					
	als?	No					
•							
e than one phase, i.e., multiphase?		No					
		1411					
st gant to a gash continue laboratory?		No					
			Subcontract Lab	: NA			
	e temperature. Actual sample tends of the present o	e temperature. Actual sample temperature: 4% of the spresent? Ed in VOA Vials? 6-8 mm (pea sized or less)? Suded for VOC analyses? Elected in the correct containers? Eight or number of sample containers collected? Eilled out with the minimum information:	e temperature. Actual sample temperature: 4°C s present? No ed in VOA Vials? NA 6-8 mm (pea sized or less)? NA uded for VOC analyses? NA llected in the correct containers? Yes eight or number of sample containers collected? Yes illed out with the minimum information: Yes Yes els indicate the samples were preserved? No reserved? NA and/or requested for dissolved metals? No re than one phase, i.e., multiphase? No ify which phase(s) is to be analyzed? NA et sent to a subcontract laboratory? No	s present? s present? st in VOA Vials? Actual sample temperature: 4°C s present? Actual sample temperature: 4°C s present? No No No No No No No No No N	e temperature. Actual sample temperature: 4°C s present? No ed in VOA Vials? NA 6-8 mm (pea sized or less)? NA uded for VOC analyses? NA llected in the correct containers? Yes eight or number of sample containers collected? Yes illed out with the minimum information: Yes Yes Yes els indicate the samples were preserved? No eserved? NA und/or requested for dissolved metals? No re than one phase, i.e., multiphase? No ify which phase(s) is to be analyzed? NA et sent to a subcontract laboratory? No	e temperature. Actual sample temperature: 4°C s present? No ed in VOA Vials? NA 6-8 mm (pea sized or less)? NA uded for VOC analyses? NA llected in the correct containers? Yes eight or number of sample containers collected? Yes illed out with the minimum information: Yes Yes Yes els indicate the samples were preserved? No reserved? NA und/or requested for dissolved metals? No re than one phase, i.e., multiphase? No re than one phase(s) is to be analyzed? NA et sent to a subcontract laboratory? No	e temperature. Actual sample temperature: 4°C s present? s present? No ed in VOA Vials? NA 6-8 mm (pea sized or less)? NA duded for VOC analyses? NA dlected in the correct containers? Yes eight or number of sample containers collected? Yes illed out with the minimum information: Yes Yes Yes Yes els indicate the samples were preserved? NA md/or requested for dissolved metals? No re than one phase, i.e., multiphase? No ify which phase(s) is to be analyzed? No et sent to a subcontract laboratory? 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: Frac Line Spill C.

Work Order: E311128

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 C.

Workorder: E311128

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 C..

The analytical test results summarized in this report with the Project Name: Frac Line Spill C. 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 C.	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 15:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-SURFACE	E311128-01A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW2-SURFACE	E311128-02A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW3-SURFACE	E311128-03A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW4-SURFACE	E311128-04A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW5-SURFACE	E311128-05A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW6-SURFACE	E311128-06A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW7-SURFACE	E311128-07A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW8-SURFACE	E311128-08A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW9-SURFACE	E311128-09A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW10-SURFACE	E311128-10A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW11-SURFACE	E311128-11A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW12-SURFACE	E311128-12A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW13-SURFACE	E311128-13A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW14-SURFACE	E311128-14A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW15-SURFACE	E311128-15A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW16-SURFACE	E311128-16A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW17-SURFACE	E311128-17A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW18-SURFACE	E311128-18A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW19-SURFACE	E311128-19A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW1-SURFACE E311128-01

		E311128-01					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
L ·					•	7 Hary Zea	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2346084
Benzene	ND	0.0250	1	1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1	l	11/16/23	11/16/23	
Toluene	ND	0.0250	1	l	11/16/23	11/16/23	
o-Xylene	ND	0.0250	1	l	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1	1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1	1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		99.3 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		99.3 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2346079
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	11/16/23	11/16/23	
Surrogate: n-Nonane		102 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346089
Chloride	252	20.0	1	1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW2-SURFACE E311128-02

		Reporting					
	Result	Limit	Dilution	Prepared	Analyzed	Notes	
 1 1 ED 1 00 (0D			Analyzata	DAC		D-4-1- 2246084	

Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Benzene	ND	0.0250		1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250		1	11/16/23	11/16/23	
Toluene	ND	0.0250		1	11/16/23	11/16/23	
o-Xylene	ND	0.0250		1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500		1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		97.5 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		97.5 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2346079
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		Analyst:	BA		Batch: 2346089

20.0

11/16/23

11/16/23

1590

Chloride

ſ	Mack Energy	Project Name:	Frac Line Spill C.	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW3-SURFACE

		2011120 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Kesuit	Liillit	Dii	uiloli	Fiepareu	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Benzene	ND	0.0250		1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250		1	11/16/23	11/16/23	
Toluene	ND	0.0250		1	11/16/23	11/16/23	
o-Xylene	ND	0.0250		1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500		1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		98.8 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		98.8 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KM		Batch: 2346079
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		100 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2346089
Chloride	4090	20.0		1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW4-SURFACE

	_	Reporting	_			
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	analyst: RAS		Batch: 2346084
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: Bromofluorobenzene		107 %	70-130	11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	11/16/23	11/17/23	
Surrogate: Toluene-d8		98.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	analyst: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130	11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	11/16/23	11/17/23	
Surrogate: Toluene-d8		98.0 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	analyst: KM		Batch: 2346079
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		88.4 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	analyst: BA		Batch: 2346089
Chloride	8800	200	10	11/16/23	11/16/23	



ſ	Mack Energy	Project Name:	Frac Line Spill C.	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW5-SURFACE

		Reporting					
Analyte	Result	Limit	Dilut	ion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: R	AS		Batch: 2346084
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: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.1 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: R	AS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.1 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: K	M		Batch: 2346079
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		109 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: B	A		Batch: 2346089
			10		11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW6-SURFACE

		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
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	Ī	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2346079
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		105 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346089
Chloride	2120	40.0		2	11/16/23	11/16/23	



ſ	Mack Energy	Project Name:	Frac Line Spill C.	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW7-SURFACE

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: R	RAS		Batch: 2346084
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: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.0 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: R	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.0 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	CM		Batch: 2346079
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		101 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: E	BA		Batch: 2346089
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ſ	Mack Energy	Project Name:	Frac Line Spill C.	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW8-SURFACE

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2346084
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: Bromofluorobenzene		107 %	70-130	11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	11/16/23	11/17/23	
Surrogate: Toluene-d8		98.7 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130	11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	11/16/23	11/17/23	
Surrogate: Toluene-d8		98.7 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2346079
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		101 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2346089
			10	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW9-SURFACE

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
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: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.9 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.9 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2346079
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		103 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2346089
Chloride	ND	20.0		1	11/16/23	11/16/23	-

Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW10-SURFACE

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2346084
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: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.9 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.9 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2346079
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		92.8 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2346089
Chloride	4300	40.0		2	11/16/23	11/16/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW11-SURFACE

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
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: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.4 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.4 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2346079
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	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		Analyst:	BA		Batch: 2346089



Mack Energy	Project Name:	Frac Line Spill C.	
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SW12-SURFACE

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2346084
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: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.6 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.6 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2346079
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		111 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2346089
	534	20.0		1	11/16/23	11/17/23	·

1	Mack Energy	Project Name:	Frac Line Spill C.	
7	7 W. Compress Road	Project Number:	20046-0001	Reported:
1	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW13-SURFACE

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
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: Bromofluorobenzene		110 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.4 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		110 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.4 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2346079
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		104 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2346089
Chloride	72.5	20.0		1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW14-SURFACE

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
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: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	Analyst: KM			Batch: 2346079	
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		86.4 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2346089
Chloride	5160	200		10	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill C.	
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SW15-SURFACE

		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
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: Bromofluorobenzene		109 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.7 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.7 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2346079
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		101 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2346089



Mack Energy	Project Name:	Frac Line Spill C.	
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Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW16-SURFACE

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346084
Benzene	ND	0.0250	1	l	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	l	11/16/23	11/17/23	
Toluene	ND	0.0250	1	l	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	l	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.7 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Ana		Analyst: RAS			Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.7 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2346079
Diesel Range Organics (C10-C28)	ND	25.0	1	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		108 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346089



ſ	Mack Energy	Project Name:	Frac Line Spill C.	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW17-SURFACE

E311128-17

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2346084
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: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		97.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2346079
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		109 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2346089
	ND	20.0		1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW18-SURFACE

E311128-18

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
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: Bromofluorobenzene		109 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		98.6 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		98.6 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2346079
Diesel Range Organics (C10-C28)	28.2	25.0		1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	88.0	50.0		1	11/16/23	11/17/23	
Surrogate: n-Nonane		106 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2346089
Chloride	7060	200		10	11/16/23	11/17/23	-



Mack Energy	Project Name:	Frac Line Spill C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

SW19-SURFACE

E311128-19

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
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: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.5 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346084
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		96.5 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2346079
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		101 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2346089
Chloride	18100	200		10	11/16/23	11/17/23	



o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2346084-MSD1)

QC Summary Data Frac Line Spill C. Mack Energy Project Name: Reported: Project Number: 7 W. Compress Road 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 11/17/2023 3:32:22PM **Volatile Organic Compounds by EPA 8260B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2346084-BLK1) Prepared: 11/16/23 Analyzed: 11/16/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.542 0.500 108 70-130 Surrogate: 1,2-Dichloroethane-d4 0.472 0.500 94.3 70-130 0.500 97.5 70-130 Surrogate: Toluene-d8 0.488 LCS (2346084-BS1) Prepared: 11/16/23 Analyzed: 11/16/23 2.74 0.0250 2.50 110 70-130 Benzene 2.50 105 70-130 2.62 Ethylbenzene 0.0250 2.53 0.0250 2.50 101 70-130 70-130 2.67 0.0250 2.50 107 o-Xylene 5.24 105 70-130 p,m-Xylene 0.0500 5.00 7.92 0.0250 7.50 106 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.546 0.500 109 70-130 0.500 94.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.472 70-130 Surrogate: Toluene-d8 0.491 0.500 Matrix Spike (2346084-MS1) Source: E311128-01 Prepared: 11/16/23 Analyzed: 11/16/23 48-131 2.59 0.0250 2.50 ND 104 45-135 Ethylbenzene 2.43 0.0250 2.50 ND 97.3 48-130 Toluene 2.34 0.0250 2.50 ND 93.8 2.46 2.50 ND 98.3 43-135

ND

ND

ND

ND

ND

ND

ND

ND

5.00

7.50

0.500

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

96.8

97.3

108

96.7

96.6

101

96.7

93.1

101

98.6

99.4

111

96.3

Source: E311128-01

43-135

43-135

70-130

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

2.94

0.639

0.749

2.67

1.87

2.14

0.0250

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

4.84

7.30

0.539

0.484

0.483

2.51

2.33

2.52

4.93

7.46

0.553

0.482

0.487

Prepared: 11/16/23 Analyzed: 11/16/23

23

27

24

27

27

27

Gasoline Range Organics (C6-C10)

QC Summary Data

Mack EnergyProject Name:Frac Line Spill C.Reported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden11/17/20233:32:22PM

Artesia NM, 88210		Project Manager	:: Na	italie Gladden				11/1	7/2023 3:32:22PM
	Non	halogenated (Organics l	by EPA 801	5D - GI	RO		A	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 (2346084-BLK1)							Prepared: 1	1/16/23 Analy	vzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			
LCS (2346084-BS2)							Prepared: 1	1/16/23 Analy	zed: 11/16/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: Bromofluorobenzene	0.553		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			
Matrix Spike (2346084-MS2)				Source: 1	E 311128- 0)1	Prepared: 1	1/16/23 Analy	zed: 11/16/23
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
Matrix Spike Dup (2346084-MSD2)				Source: 1	E 311128- ()1	Prepared: 1	1/16/23 Analy	zed: 11/16/23

Surrogate: Bromofluorobenzene	0.545	0.500	109	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.471	0.500	94.2	70-130	
Surrogate: Toluene-d8	0.497	0.500	99.4	70-130	

50.0

20.0

46.2

70-130

9.86

92.5

Mack Energy	Project Name:	Frac Line Spill C.	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:32:22PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			1	1/17/2023 3:32:22P
	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 (2346079-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							
urrogate: n-Nonane	54.3		50.0		109	50-200			
LCS (2346079-BS1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	300	25.0	250		120	38-132			
urrogate: n-Nonane	59.0		50.0		118	50-200			
Matrix Spike (2346079-MS1)				Source:	E311128-0)3	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132			
urrogate: n-Nonane	59.9		50.0		120	50-200			
Matrix Spike Dup (2346079-MSD1)				Source:	E311128-()3	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	38-132	2.50	20	
'urrogate: n-Nonane	56.8		50.0		114	50-200			



Mack Energy		Project Name:		rac Line Spill	C.				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager		0046-0001 atalie Gladden	l				11/17/2023 3:32:22PM
		Anions	by EPA	300.0/9056 <i>A</i>	\				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346089-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346089-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2346089-MS1)				Source:	E311128-0)3	Prepared:	11/16/23	Analyzed: 11/17/23
Chloride	4230	20.0	250	4090	54.5	80-120			M4
Matrix Spike Dup (2346089-MSD1)				Source:	E311128-0)3	Prepared:	11/16/23	Analyzed: 11/17/23
Chloride	4250	20.0	250	4090	64.5	80-120	0.587	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 C.	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 15:32

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

	Bill To					Use Only			TAT			EPA Program	
ient: Mack Chercy Spill C Attention: ENERGY STAF		Lab	WO#				Number	1D	2D		Standard	CWA	SDWA
oject Manager: Natalie Gladden Address: 2724 NW COUN		E3	3111	2			046-000		K				
ddress: City, State, Zip HOBBS, ty, State, Zip HOBBS, Phone: 575-393-9048	, NM 88240					Analy	rsis and Metho	d					RCRA
ty, State, Zip Phone: 575-393-9048 none: Email: NATALIE@ENERGY.	CTAPEING LC COM										2,614	Ct. 1	
wail-		8015	8015								NIMI CO	State UT AZ	Tryl
eport due by:	YSTAFFINGLLC.COM	yd C	γdC	8021	260	010	300.0	Z	×		X	UI AZ	TX
Time Date Matrix No. of Containers Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by	VOC by 8260	Metals 6010	Chloride	верос	верос			Remarks	
"/14/23 5 SWIn Surface	V							X					
SW2-surface	2							1					
SW3-surface	3												
SWY-surface	4												
SWS-enface	5												
SWG-Surface	6							1					
SW7-Surface	7												
SW8-Su, face	8												
SW8-Su, Face SW9-Surface	9							1					
11/14/23) SW 10 - SU, face	10							X					
dditional Instructions:								,					
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intention te or time of collection is considered fraud and may be grounds for legal action.			on,				es requiring thermal p						ed or received
Party Torogy Pate Willer & Received by: (Signature) And Torogy Willer & William & Willer & Willer & William & Willia	Date 11-15:	0	Time	+3	0		eived on ice:	L		e Only	12. E3. 14.	***	
Plinquished by: (Signature) Date Time Received by (Signature) Plinquished by: (Signature) Date Time Received by (Signature) Received by (Signature)	Date IIII		Time			T1	eived on ice.	TZ	y N		Т3		
Plinquished by: (Signature) Date Time Received by (Signature)	Date		Time				Temp °C	4					
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container	Type	: g - g	lass.			astic, ag - ambe	er glas	55. V -	VOA			
ote: Samples are discarded 30 days after results are reported unless other arrangements are made.	11		0 0	to all		11 1	-1-6 -1110	0.0.		~1			



Project Information

Client: A	racle	Linera	411			Bill To Attention: ENERGY STAFFING	CEDVICE	VIII.		_		e Onl	_				TA		EPA P	rogram
Project N	Manager:	Mahal	ie Colo	der		Address: 2724 NW COUNTY R		Lab	WO#	25	>	Job N			10	2D	3D	Standard	CWA	SDWA
Address:	nanoger.	INCHAI	CCI		a.	City, State, Zip HOBBS, NM		Ed	111	0	0			0000		X		Terror etc.		
City, Stat						Phone: 575-393-9048	00240					Analy	sis ar	nd Meth	od	1	1 1			RCRA
Phone:					10.5	Email: NATALIE@ENERGYSTAFI	EINGLIC COM	10										102	Chah	
Email:						BRITTNEY@ENERGYSTAFFINGLLC.COM		by 8015	801				0				1 1	NAT CO	State UT AZ	TVI
Report d	ue by:				1.4	BRITTNET@ENERGYSTAI	FFINGLLC.COM	yd C	yd C	8021	260	010	300.		Z	×		NIVI CO	UI AZ	IX
Time	Date	Matrix	No. of	C1-10			Lab	/OR(/DRC	by 8	VOC by 8260	als 60				100		17		
Sampled	Sampled		Containers	Sample ID			Number	DRO/ORO	GRO/DRO by 8015	втех ьу	VOC	Metals 6010	Chloride		BGDOC	верос			Remarks	
	11/14/23	5		SWI	1-	Sirface	11								V	7				
)	1	1	SWI	¿ - 5	Sir face our face	12								1					
				SWI	3	surface	13								1				3110-1	
				5W1	f - 5	cace	14								1					
				Swi	5 - 6	Surface	15								1					
				501	6-	Surface	16													
				156	17	Surface	17								1			1	31-3111	
		1	1			su i face	18								T					
	1/14/13	5	1			Suiface	19								X					
Addition	al Instruc	tions:													1	-				
, (field sam)	oler), attest to	the validity	and authent	icity of this sa	mple. I am av	ware that tampering with or intentionally materials.		locatio	on,									lived on ice the day to C on subsequent day		ed or received
Relinquish	ed by: (Signa	ature)		14/23		Received by: (Signature)	- Date - 11-15-	23	Time	+3	0			on ice:	1		e Only		7	
	d by: (Signa		Date	-15-23	Time 3	Received by: (Signature)	Date 11.10.5		Time			T1	ivea	on ice:	T) N		T2		
Relinquish	ed by: (Signa	iture)	Date		Time	Received by: (Signature)	Date		Time	.00	_		4.0	00	4			<u>T3</u>		
ample Mat	ix: S - Soil Sd	- Solid Sp -	Sludge A - A	queous, O - O	ther		Container	Tuna	. ~ ~	lace :		AVG					1/04			
						s other arrangements are made. Haza	Container	lype	. g - g	to clic	p - pc	ny/ pia	od ef	ag - amt	er gia	55, V -	VUA	and for the	- C.1	
amples is	applicable o	nly to thos	e samples r	eceived by the	ne laborator	ry with this COC. The lizability of the lab	oraton is limited to	the n	mount	o cile	for or	thore	eu or	at the Cil	in ext	iense.	me re	port for the anal	ysis of the	apove



Printed: 11/16/2023 10:48:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

	<u> </u>			-	•		
Client:	Mack Energy	Date Received:	11/16/23	09:00	Work Order	ID:	E311128
Phone:	(575) 390-6397	Date Logged In:	11/15/23	15:35	Logged In I	Зу:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/17/23	17:00 (1 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>'ourier</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	No				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Com</u>	men	ts/Resolution
Sample 7	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not p	rov	rided on COC by
Sample (Cooler				client.		
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	, were custody/security seals intact?						
-	• •		NA				
	we sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples an minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes				
	Container		_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal		nors conceicu.	105				
	field sample labels filled out with the minimum info	ormation.					
	ample ID?		Yes				
	Pate/Time Collected?		Yes	l			
C	Collectors name?		Yes				
Sample I	Preservation						
	the COC or field labels indicate the samples were p	reserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved r	netals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes	, does the COC specify which phase(s) is to be anal	yzed?	NA				
Subconti	act Laboratory						
	amples required to get sent to a subcontract laborate	ory?	No				
	a subcontract laboratory specified by the client and i	•	NA	Subcontract Lab	: NA		
Client I	nstruction						
Chent II	isti uction						
							0

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill C

Work Order: E402183

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 Spill C

Workorder: E402183

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 Spill C.

The analytical test results summarized in this report with the Project Name: West Mount Spill C 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 Spill C	Donoutod.
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/22/24 17:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 1-6'	E402183-01A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 2-6'	E402183-02A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 3-8'	E402183-03A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 4-6'	E402183-04A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 5-6'	E402183-05A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 6-6'	E402183-06A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 7-6'	E402183-07A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 8-10'	E402183-08A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.
SP 9-6'	E402183-09A	Soil	02/19/24	02/21/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 1-6' E402183-01

		E402103-01					
Analyta	Dagult	Reporting	D:I-	ti.a	Duomonod	Analyzad	Notes
Analyte	Result	Limit	Dili	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		101 %	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		89.9 %	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	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		101 %	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		89.9 %	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		88.0 %	50-200		02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2408056
Chloride	254	40.0		2	02/21/24	02/21/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 2-6' E402183-02

Analyte	Result	Reporting Limit	Dilut	tion Prep	ared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS			Batch: 2408049
Benzene	ND	0.0250	1	02/2	1/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/2	1/24	02/21/24	
Toluene	ND	0.0250	1	02/2	1/24	02/21/24	
o-Xylene	ND	0.0250	1	02/2	1/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/2	1/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/2	1/24	02/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130	02/2	1/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/2	1/24	02/21/24	
Surrogate: Toluene-d8		89.5 %	70-130	02/2	1/24	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	02/2	1/24	02/21/24	
Surrogate: Bromofluorobenzene		103 %	70-130	02/2	1/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/2	1/24	02/21/24	
Surrogate: Toluene-d8		89.5 %	70-130	02/2	1/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: KM			Batch: 2408048
Diesel Range Organics (C10-C28)	ND	25.0	1	02/2	1/24	02/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/2	1/24	02/22/24	
Surrogate: n-Nonane		90.9 %	50-200	02/2	1/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT			Batch: 2408056
Chloride	497	40.0	2	02/2	1/24	02/21/24	_

Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 3-8' E402183-03

		E402105-05				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Allaryte	Result	Liiiit	Diluti	on Trepared	Allalyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: 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		103 %	70-130	02/21/24	02/21/24	
Surrogate: Toluene-d8		89.8 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: 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		103 %	70-130	02/21/24	02/21/24	
Surrogate: Toluene-d8		89.8 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: 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		89.1 %	50-200	02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2408056
Chloride	311	40.0	2	02/21/24	02/21/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 4-6' E402183-04

Domlt	Reporting	D:1	ution	Duomonod	Amalyzad	Notes
Result	Limit	Dil	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst	: RAS		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	
	102 %	70-130		02/21/24	02/21/24	
	103 %	70-130		02/21/24	02/21/24	
	86.1 %	70-130		02/21/24	02/21/24	
mg/kg	mg/kg		Analyst	: RAS		Batch: 2408049
ND	20.0		1	02/21/24	02/21/24	
	102 %	70-130		02/21/24	02/21/24	
	103 %	70-130		02/21/24	02/21/24	
	86.1 %	70-130		02/21/24	02/21/24	
mg/kg	mg/kg		Analyst	: KM		Batch: 2408048
ND	25.0		1	02/21/24	02/22/24	
ND	50.0		1	02/21/24	02/22/24	
	84.2 %	50-200		02/21/24	02/22/24	
mg/kg	mg/kg		Analyst	: DT		Batch: 2408056
225	20.0		1	02/21/24	02/21/24	
	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 IO2 % 103 % 86.1 % mg/kg ND 20.0 IO2 % 103 % 86.1 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0 84.2 % mg/kg mg/kg mg/kg	Result Limit Dil mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 IO2 % 70-130 86.1 % 70-130 mg/kg mg/kg ND 20.0 IO2 % 70-130 86.1 % 70-130 86.1 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 84.2 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 102 % 70-130 103 % 70-130 86.1 % 70-130 mg/kg mg/kg Analyst ND 20.0 1 102 % 70-130 1 mg/kg mg/kg Analyst ND 25.0 1 ND 50.0 1 84.2 % 50-200 mg/kg Mg/kg Analyst	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 86.1 % 70-130 02/21/24 86.1 % 70-130 02/21/24 102 % 70-130 02/21/24 103 % 70-130 02/21/24 86.1 % 70-130 02/21/24 86.1 % 70-130 02/21/24 86.1 % 70-130 02/21/24 86.1 % 70-130 02/21/24 86.1 % 70-130 02/21/24 86.1 % 70-130 02/21/24 86.1 % 70-130 <td>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 86.1 % 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 02/21/24 103 % 70-130 02/21/24 02/21/24 86.1 % 70-130 02/21/24 02/21/24 mg/kg mg/k</td>	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 86.1 % 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 02/21/24 103 % 70-130 02/21/24 02/21/24 86.1 % 70-130 02/21/24 02/21/24 mg/kg mg/k



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 5-6' E402183-05

Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Allarytt	Kesuit	Limit	Dilut	ion Trepared	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	
p-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		101 %	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		90.0 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2408049
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		101 %	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		90.0 %	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	02/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/24	02/22/24	
Surrogate: n-Nonane		91.3 %	50-200	02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2408056
Chloride	332	20.0	1	02/21/24	02/21/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 6-6' E402183-06

Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RA	AS		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		100 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		96.0 %	70-130		02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RA	ΔS		Batch: 2408049
Gasoline Range Organics (C6-C10)	ND	20.0	1		02/21/24	02/21/24	
Surrogate: Bromofluorobenzene		100 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		96.0 %	70-130		02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KN	Л		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		88.1 %	50-200		02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT			Batch: 2408056
Chloride	229	20.0	1		02/21/24	02/21/24	_



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 7-6' E402183-07

		E402103-07					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	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		101 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		90.7 %	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		101 %	70-130		02/21/24	02/21/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/21/24	02/21/24	
Surrogate: Toluene-d8		90.7 %	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		90.8 %	50-200		02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2408056
Chloride	304	20.0		1	02/21/24	02/21/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 8-10' E402183-08

		E402105-00				
Analyte	Result	Reporting Limit	Dilu	tion 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. 2400049
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	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		104 %	70-130	02/21/24	02/21/24	
Surrogate: Toluene-d8		84.6 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	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		104 %	70-130	02/21/24	02/21/24	
Surrogate: Toluene-d8		84.6 %	70-130	02/21/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	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		84.0 %	50-200	02/21/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2408056
Chloride	404	40.0	2	02/21/24	02/21/24	_



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

SP 9-6' E402183-09

		E402105-07				
Analyte	Result	Reporting Limit	Dilut	tion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RAS	·	Batch: 2408049
Benzene	ND	0.0250	1	02/21/24	4 02/21/24	
Ethylbenzene	ND	0.0250	1	02/21/24	4 02/21/24	
Toluene	ND	0.0250	1	02/21/24	4 02/21/24	
o-Xylene	ND	0.0250	1	02/21/2	4 02/21/24	
p,m-Xylene	ND	0.0500	1	02/21/2	4 02/21/24	
Total Xylenes	ND	0.0250	1	02/21/24	4 02/21/24	
Surrogate: Bromofluorobenzene		94.4 %	70-130	02/21/2	4 02/21/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/21/2	4 02/21/24	
Surrogate: Toluene-d8		90.8 %	70-130	02/21/2	4 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	4 02/21/24	
Surrogate: Bromofluorobenzene		94.4 %	70-130	02/21/2	4 02/21/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/21/2	4 02/21/24	
Surrogate: Toluene-d8		90.8 %	70-130	02/21/2	4 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	02/21/2	4 02/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/21/2	4 02/22/24	
Surrogate: n-Nonane		86.8 %	50-200	02/21/2	4 02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2408056



West Mount Spill C Mack Energy Project Name: Reported: Project Number: 7 W. Compress Road 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/22/2024 5:23:57PM **Volatile Organic Compounds by EPA 8260B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2408049-BLK1) Prepared: 02/21/24 Analyzed: 02/21/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.512 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.509 0.500 102 70-130 0.500 89.6 70-130 Surrogate: Toluene-d8 0.448 LCS (2408049-BS1) Prepared: 02/21/24 Analyzed: 02/21/24 2.81 0.0250 2.50 113 70-130 Benzene 2.50 90.9 70-130 2.27 Ethylbenzene 0.0250 2.26 0.0250 2.50 90.3 70-130 88.9 70-130 2.22 0.0250 2.50 o-Xylene 4.37 87.4 70-130 p,m-Xylene 0.0500 5.00 6.59 0.0250 7.50 87.9 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.492 0.500 98.4 70-130 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.509 70-130 Surrogate: Toluene-d8 0.500 0.448 Matrix Spike (2408049-MS1) Source: E402182-01 Prepared: 02/21/24 Analyzed: 02/21/24 2.85 0.0250 2.50 ND 114 48-131 45-135 Ethylbenzene 2.47 0.0250 2.50 ND 98.7 48-130 Toluene 2.43 0.0250 2.50 ND 97.3 2.33 0.0250 2.50 ND 93.1 43-135 o-Xylene 4.53 ND 90.6 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 6.86 0.0250 7.50 ND 91.4 43-135 104 0.519 0.500 70-130 Surrogate: Bromofluorobenzene 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.510 0.500 70-130 0.479 95.8 Surrogate: Toluene-d8

Source: E402182-01

115

94.7

92.8

94.1

91.8

92.6

104

99.8

89.7

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

1.14

4.14

4.69

1.07

1.36

1.26

ND

ND

ND

ND

ND

ND



Prepared: 02/21/24 Analyzed: 02/21/24

23

27

24

27

27

27

Matrix Spike Dup (2408049-MSD1)

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.88

2.37

2.32

2.35

4.59

6.94

0.519

0.499

0.449

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

Mack EnergyProject Name:West Mount Spill CReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden2/22/20245:23:57PM

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	%	%	%	%	Notes

	Result	LIIIII	Level	Result	Rec	LIIIIIIS	KrD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408049-BLK1)							Prepared: 02	2/21/24 A	nalyzed: 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: 02	2/21/24 A	nalyzed: 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:	E402182-0	01	Prepared: 02	2/21/24 A	nalyzed: 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	01	Prepared: 02	2/21/24 A	nalyzed: 02/21/24
	20.5	20.0	50.0	ND	79.0	70-130	2.88	20	
Gasoline Range Organics (C6-C10)	39.5	20.0							
	0.514	20.0	0.500		103	70-130			
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4		20.0	0.500 0.500		103 102	70-130 70-130			



Mack Energy	Project Name:	West Mount Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/22/2024 5:23:57PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				2/22/2024 5:23:5/PN
	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 (2408048-BLK1)							Prepared: 02	2/21/24 Aı	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.8		50.0		91.5	50-200			
LCS (2408048-BS1)							Prepared: 02	2/21/24 Aı	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	222	25.0	250		89.0	38-132			
urrogate: n-Nonane	42.4		50.0		84.8	50-200			
Matrix Spike (2408048-MS1)				Source:	E402182-	03	Prepared: 02	2/21/24 A1	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
urrogate: n-Nonane	45.0		50.0		90.0	50-200			
Matrix Spike Dup (2408048-MSD1)				Source:	E402182-	03	Prepared: 02	2/21/24 Aı	nalyzed: 02/21/24
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132	0.810	20	
hurrogate: 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	046-0001				Reported:			
Artesia NM, 88210		Project Manager		ntalie Gladder					2/22/2024 5:23:57PM		
				00.0/9056A Source	<u> </u>	Rec		RPD	Analyst: DT		
Analyte	Result	Reporting Limit	Spike Level	Result	Rec	Limits	RPD	Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2408056-BLK1)							Prepared: 0	2/21/24 A	nalyzed: 02/21/24		
Chloride	ND	20.0									
LCS (2408056-BS1)							Prepared: 0	2/21/24 A	nalyzed: 02/21/24		
Chloride	263	20.0	250		105	90-110					
Matrix Spike (2408056-MS1)				Source:	E402177-	03	Prepared: 0	2/21/24 A	nalyzed: 02/21/24		
Chloride	380	20.0	250	123	102	80-120					
Matrix Spike Dup (2408056-MSD1)				Source:	E402177-	03	Prepared: 0	2/21/24 A	nalyzed: 02/21/24		

250

20.0

123

106

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

Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/22/24 17:23

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: 8/27/2025 3:05:35 PM

Client: #	lack En	604			- 1		Bil	ПТо			W.	La	ab Us	e Onl	У	- SE			TAT		EPA P	ogram
Project:	Wesz M	ant	58111	C	1/5		ntion: ENERGY S		ICES	Lab	WQ#	010	12	Job N	lumb	er - 0001	1D		3D	Standard	CWA	SDWA
Project N	Nanager:				100		ess: 2724 NW CC			E.	10:	210						X				
Address:					1		State, Zip HOI	BBS, NM 88240						Analys	sis an	d Metho	Ė			TV-1		RCRA
City, Stat	te, Zip				AL-		ie: 575-393-9048		0.00											A STATE OF	Chris	
Phone:					13	Emai	I: NATALIE@ENEI	RGYSTAFFINGLL	C.COM	by 8015	015									NINT CO	State	TVI
Email:							BRITTNEY@ENI	ERGYSTAFFINGL	LC.COM	by 8	by 8	021	09	10	0.00		ΣN	×		NIVI CO	UT AZ	IX
Report d						-			1	ORO	ORO	by 8(1 82	s 60	de 3					×		
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		96000	верос			Remarks	
	02/19	5	1	50	1	-6	1		l								X					
	1	/	1	50	2	-6'			2								1					
				50	3	- 8	1		3													
				58	4	-6'			4								1					
		-		58	5 -	. 6'	- W		5								1					
			1	58	6 -			-	6													
		-	++	58	7 -				7								1					
										_						_	11	-				
	1		/	58	8-	10'			8								(
	02/19	5	1	58	9.	6			9								X	1				
Additio	nal Instruc	tions:																				
	npler), attest to						nat tampering with or in	tentionally mislabelli	ng the sample	e locat	ion,									eived on ice the day °C on subsequent d		ed or received
	hed by: (Sign		Dat		Time	a detion.	Received by: (Signat				Time	400		The same		a saw	L	ab U	se Onl	V		and the
Tim	5015	acu.c/		2/10/24			Marcille		2-20	-24	11	30	D	Rece	eived	on ice:		0/1				
	hed by: (Sign	(ture)	Dat	e	Time	1 =	Received by: (Signat	ure)	Date		Time						1	7	-			
Mu	ulle	Gest	- 2	20-24	16	15	Indrew	MSS	1.20	24	1	700		T1	2.1		T2		15.	T3		
	hed by: (Sign	ature)	Dat	e	Time		Received by: (Signat	ure)	Date		Time											
1 1/1)	A. Co	12	1.20.24	24	(0)	herbor 1	HELLE	2-21	-24	0	53	30	AVG	Tem	ip °C	4					
Sample M	atrix: S - Soil, S	-					1/1	1100	Containe	r Typ							er gla	iss, v	- VOA			
Note: Sai	mples are dis	carded 30	days after i	results are re	ported u	nless othe	er arrangements are r	nade. Hazardous	samples wil	l be re	eturne	d to cl	lient o	r dispo	sed o	f at the cli	ent exp	pense	. The re	eport for the an	alysis of the	above
							h this COC. The liabili															



Printed: 2/21/2024 8:13:42AM

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:	02/21/24 05:30	Work Order ID:	E402183
Phone:	(575) 390-6397	Date Logged In:	02/20/24 15:48	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	02/22/24 17:00 (1 day TAT)		

Cilent:	Made Direigy	Date Received.	02/21/24	V3.30	WOIK	Order ID:	E402165
Phone:	(575) 390-6397	Date Logged In:	02/20/24	15:48	Logge	ed In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	02/22/24	17:00 (1 day TAT)			
Ch-i	*C	-				-	
	Custody (COC)		W				
	he sample ID match the COC?	sh the COC	Yes				
	he number of samples per sampling site location mate	in the COC	Yes				
	samples dropped off by client or carrier?	od analysas?	Yes No	Carrier: C	Courier		
	te COC complete, i.e., signatures, dates/times, request	eu anaiyses?	Yes				
J. WEIE	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 disuessio		108	,		Comments	s/Resolution
Sample '	Turn Around Time (TAT)					• .	
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Project manager	r and tim	e sampled are not
Sample (Cooler				documented on	the COC	by client.
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes		1		
10. Were	custody/security seals present?		No				
11. If yes	, 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	emperature: 4°0	2				
	Container	• –	_				
	equeous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	con-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contains	ers collected?	Yes				
Field La							
	field sample labels filled out with the minimum infor	mation:					
	ample ID?		Yes				
	Date/Time Collected?		Yes				
C	Collectors name?		Yes				
`	Preservation						
	the COC or field labels indicate the samples were pre	served?	No				
	ample(s) correctly preserved?	1.0	NA				
	filteration required and/or requested for dissolved me	cais?	No				
	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphase		No				
27. If yes	, does the COC specify which phase(s) is to be analyze	zed?	NA				
Subconti	ract Laboratory						
28. Are s	amples required to get sent to a subcontract laborator;	/?	No				
29. Was a	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA		
Client I	nstruction						
İ							
							i



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 Spill C

Work Order: E402193

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 Spill C

Workorder: E402193

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 Spill C.

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

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ljarboe@envirotech-inc.com

Michelle Golzales

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Office: 505-421-LABS(5227)

G 11 505 045 0000

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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SW 6-6'	10
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Sample Summary

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	Mack Energy	Project Name:	West Mount Spill C	Reported:
	7 W. Compress Road	Project Number:	20046-0001	Keporteu.
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/23/24 11:52

Client Sample ID	Lab Sample ID Ma	trix Sampled	Received	Container
SW 1-3'	E402193-01A S	oil 02/20/2	4 02/22/24	Glass Jar, 2 oz.
SW 2-3'	E402193-02A S	oil 02/20/24	4 02/22/24	Glass Jar, 2 oz.
SW 3-3'	E402193-03A S	oil 02/20/24	4 02/22/24	Glass Jar, 2 oz.
SW 4-3'	E402193-04A S	oil 02/20/24	4 02/22/24	Glass Jar, 2 oz.
SW 5-3'	E402193-05A S	oil 02/20/2	4 02/22/24	Glass Jar, 2 oz.
SW 6-6'	E402193-06A S	oil 02/20/24	4 02/22/24	Glass Jar, 2 oz.
SW 7-6'	E402193-07A S	oil 02/20/2	4 02/22/24	Glass Jar, 2 oz.



Mack Energy Project Name:		West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 1-3' E402193-01

	L-1021/5 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: 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	
	94.7 %	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	
	95.5 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Analyst: NV		Batch: 2408068	
ND	25.0	1	02/22/24	02/22/24	
ND	50.0	1	02/22/24	02/22/24	
	114 %	50-200	02/22/24	02/22/24	
		ng/kg Analyst: DT		D 1 2400071	
mg/kg	mg/kg	Analy	/st: D1		Batch: 2408071
	mg/kg ND	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 94.7 % mg/kg MD 20.0 95.5 % mg/kg ND 25.0 ND 50.0 114 %	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 94.7 % 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	Reporting Result Limit Dilution Prepared mg/kg 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 0.0500 1 02/22/24 ND 0.0250 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	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 0.0250 1 02/22/24 02/22/24 ND 0.0250 1 02/22/24 02/22/24 MD 0.0250 1 02/22/24 02/22/24 MD 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 50.0 1 02/22/24 02/22/24 ND 50.0 1 02/22/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 2-3' E402193-02

	L+021/5 02				
Result	Reporting Limit		n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2408069
ND	0.0500	2	02/22/24	02/22/24	
ND	0.0500	2	02/22/24	02/22/24	
ND	0.0500	2	02/22/24	02/22/24	
ND	0.0500	2	02/22/24	02/22/24	
ND	0.100	2	02/22/24	02/22/24	
ND	0.0500	2	02/22/24	02/22/24	
	95.8 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2408069
ND	40.0	2	02/22/24	02/22/24	
	95.7 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2408068
ND	25.0	1	02/22/24	02/22/24	
ND	50.0	1	02/22/24	02/22/24	
	104 %	50-200	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2408071
36.6	20.0	1	02/22/24	02/22/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0500 ND 0.0500 ND 0.0500 ND 0.100 ND 0.0500 MD 0.0500 MD 40.0500 95.8 % mg/kg MB/kg mg/kg ND 40.0 95.7 % mg/kg MB/kg mg/kg ND 25.0 ND 50.0 104 % 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 MD 0.0500 2 MD 40.0500 2 MB/kg mg/kg Ana ND 40.0 2 95.7 % 70-130 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 104 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg Analyst: RKS ND 0.0500 2 02/22/24 ND 0.0500 2 02/22/24 ND 0.0500 2 02/22/24 ND 0.0500 2 02/22/24 ND 0.100 2 02/22/24 ND 0.0500 2 02/22/24 mg/kg mg/kg Analyst: RKS ND 40.0 2 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 mg/kg mg/kg Analyst: NV	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0500 2 02/22/24 02/22/24 ND 0.100 2 02/22/24 02/22/24 ND 0.0500 2 02/22/24 02/22/24 mg/kg mg/kg Analyst: RKS ND 40.0 2 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 02/22/24 ND 50.0 1 02/22/24 02/22/24 ND 50.0 1 02/22/24 02/22/24 ND 50.0 1 02/22/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 3-3' E402193-03

porting Limit ng/kg	Dilution Analyst:	Prepared	Analyzed	Notes
-	Analyst:	DIZC		
0250		KKS		Batch: 2408069
.0250	1	02/22/24	02/22/24	
.0250	1	02/22/24	02/22/24	
.0250	1	02/22/24	02/22/24	
.0250	1	02/22/24	02/22/24	
.0500	1	02/22/24	02/22/24	
.0250	1	02/22/24	02/22/24	
70-1.	30	02/22/24	02/22/24	
ng/kg	Analyst:	RKS		Batch: 2408069
20.0	1	02/22/24	02/22/24	
70-1.	30	02/22/24	02/22/24	
ng/kg	Analyst:	NV		Batch: 2408068
25.0	1	02/22/24	02/22/24	
50.0	1	02/22/24	02/22/24	
50-20	00	02/22/24	02/22/24	
ng/kg	Analyst:	DT		Batch: 2408071
20.0	1	02/22/24	02/22/24	
	0250 0250 0250 0250 0500 0250 70-1 ng/kg 20.0 70-1 50-2	0250 1 0250 1 0250 1 0250 1 0250 1 0500 1 0250 1 70-130 1 1 70-130 1 1 70-130 1 1 70-130 1 1 70-130 1 1 50-200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0250 1 02/22/24 0250 1 02/22/24 0250 1 02/22/24 0250 1 02/22/24 0500 1 02/22/24 0250 1 02/22/24 0250 1 02/22/24 0250 1 02/22/24 0260 1 02/22/24 09/kg Analyst: RKS 020.0 1 02/22/24 09/kg Analyst: NV 025.0 1 02/22/24 050.0 1 02/22/24 050.0 1 02/22/24 050.0 1 02/22/24	1 02/22/24 0



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 4-3' E402193-04

		E-1021/3-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: 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		95.2 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	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		96.3 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2408068
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/24	02/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/24	02/22/24	
Surrogate: n-Nonane		105 %	50-200	02/22/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2408071
Chloride	228	20.0	1	02/22/24	02/22/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 5-3' E402193-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: 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	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		95.1 %	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	02/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/24	02/22/24	
Surrogate: n-Nonane		112 %	50-200	02/22/24	02/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2408071
Chloride	76.1	20.0	1	02/22/24	02/22/24	·



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 6-6' E402193-06

	L-102175 00				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	Analyst: 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	
	95.0 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2408069
ND	20.0	1	02/22/24	02/22/24	
	95.9 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2408068
ND	25.0	1	02/22/24	02/22/24	
ND	50.0	1	02/22/24	02/22/24	
	105 %	50-200	02/22/24	02/22/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2408071
63.8	20.0	1	02/22/24	02/22/24	
	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 25.0 % mg/kg mg/kg MD 20.0 95.9 % mg/kg MD 25.0 ND 50.0 105 % 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 95.0 % 70-130 mg/kg mg/kg Ana ND 20.0 1 95.9 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 105 % 50-200 mg/kg Mg/kg Ana	Result Limit Dilution Prepared mg/kg 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 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 mg/kg mg/kg Analyst: DT	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 0.0250 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 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 02/22/24 ND 50.0 1 02/22/24 02/22/24 ND 50.0 1 02/22/24 02/22/24 <



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

SW 7-6' E402193-07

	E-102175 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	Analyst: 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	
	95.3 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2408069
ND	20.0	1	02/22/24	02/22/24	
	95.9 %	70-130	02/22/24	02/22/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2408068
ND	25.0	1	02/22/24	02/22/24	
ND	50.0	1	02/22/24	02/22/24	
	102 %	50-200	02/22/24	02/22/24	
mg/kg	mg/kg	Anal	yst: DT		Batch: 2408071
52.6	20.0	1	02/22/24	02/22/24	
	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 25.0 MB/kg mg/kg MB/kg mg/kg ND 25.0 ND 50.0 102 % 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 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg Anal MD 20.0 1 MB/kg mg/kg Anal ND 25.0 1 ND 50.0 1 102 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg 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 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 mg/kg mg/kg Analyst: DT	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 0.0250 1 02/22/24 02/22/24 ND 0.0250 1 02/22/24 02/22/24 MD 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 02/22/24 ND 50.0 1 02/22/24 02/22/24 ND 50.0 1 02/22/24 02/22/24 <



		QC 50	41111114	iry Dat	a				
Mack Energy 7 W. Compress Road		Project Name: Project Number:		est Mount Sp 0046-0001	ill C				Reported:
Artesia NM, 88210		Project Manager:	Na	atalie Gladder	n				2/23/2024 11:52:37AM
		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 (2408069-BLK1)							Prepared: 0	2/22/24 A	nalyzed: 02/22/24
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	7.57		8.00		94.6	70-130			
LCS (2408069-BS1)							Prepared: 0	2/22/24 A	nalyzed: 02/22/24
Benzene	3.69	0.0250	5.00		73.8	70-130			
Ethylbenzene	3.87	0.0250	5.00		77.5	70-130			
Toluene	3.81	0.0250	5.00		76.1	70-130			
o-Xylene	3.84	0.0250	5.00		76.7	70-130			
p,m-Xylene	7.84	0.0500	10.0		78.4	70-130			
Total Xylenes	11.7	0.0250	15.0		77.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
Matrix Spike (2408069-MS1)				Source:	E402194-	03	Prepared: 0	2/22/24 A	nalyzed: 02/22/24
Benzene	4.53	0.0250	5.00	ND	90.7	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131			
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			
Matrix Spike Dup (2408069-MSD1)				Source:	E402194-	03	Prepared: 0	2/22/24 A	nalyzed: 02/22/24
Benzene	4.98	0.0250	5.00	ND	99.7	54-133	9.48	20	
Ethylbenzene	5.27	0.0250	5.00	ND	105	61-133	9.82	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	9.53	20	
o-Xylene	5.22	0.0250	5.00	ND	104	63-131	9.68	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	9.56	20	
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131	9.60	20	

8.00

7.59

94.9

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	_
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			2/23	/2024 11:52:37AM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO		A	nalyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (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 Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:52:37AM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				/23/2024 11:52:3/AF
	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 (2408068-BLK1)							Prepared: 0	2/22/24 An	alyzed: 02/22/24
riesel 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 An	alyzed: 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 An	alyzed: 02/22/24
tiesel 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 An	alyzed: 02/22/24
tiesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.36	20	
urrogate: n-Nonane	55.3		50.0		111	50-200			



Chloride

QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number	: 20	est Mount Sp 046-0001					Reported:
Artesia NM, 88210		Project Manager	r: Na	ıtalie Gladder	1				2/23/2024 11:52:37AM
		Anions	by EPA 3	00.0/9056	A				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 A	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

250

20.0

32.0

99.2

80-120

1.69

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 C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/23/24 11:52

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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Printed: 2/22/2024 9:15:08AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

	Date Received:	02/22/24 05:	30	•	Work Order ID:	E402193
hone: (575) 390-6397	Date Logged In:	02/21/24 16:	00		Logged In By:	Alexa Michaels
mail: Natalie@energystaffinglfc.com	Due Date:	02/23/24 17:	00 (1 day TAT)			
hain of Custody (COC)						
Does the sample ID match the COC?		Yes				
Does the number of samples per sampling site location mat	ch the COC	Yes				
. Were samples dropped off by client or carrier?		Yes	Carrier: C	Courier		
. Was the COC complete, i.e., signatures, dates/times, reques	ted 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 disucssion.	the field,	Yes			Commen	ts/Resolution
ample Turn Around Time (TAT)				Droject mon	ager and tir	ne sampled are not
Did the COC indicate standard TAT, or Expedited TAT?		Yes		1 -	_	-
ample Cooler				documented	on the CO	C by client.
. Was a sample cooler received?		Yes				
. If yes, was cooler received in good condition?		Yes				
. Was the sample(s) received intact, i.e., not broken?		Yes				
0. Were custody/security seals present?		No				
1. If yes, were custody/security seals intact?		NA				
 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 	e received w/i 15	Yes	ı			
3. If no visible ice, record the temperature. Actual sample	temperature: 4°	노				
ample 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				
8. Are non-VOC samples collected in the correct containers		Yes				
9. Is the appropriate volume/weight or number of sample contain	ers collected?	Yes				
<u>ield Label</u>	rmation:					
Sample ID?		Yes				
Date/Time Collected?		Yes				
Collectors name?		Yes				
ample Preservation 1. Does the COC or field labels indicate the samples were no	ecemed?	No				
1. Does the COC or field labels indicate the samples were pr	Caci vou!	No NA				
 Are sample(s) correctly preserved? Is lab filteration required and/or requested for dissolved m 	retals?					
	iculis i	No				
Iultiphase Sample Matrix	. 0					
6. Does the sample have more than one phase, i.e., multipha		No				
7. If yes, does the COC specify which phase(s) is to be analy	zed?	NA				
ubcontract Laboratory						
	y?	No				
 Are samples required to get sent to a subcontract laborator 	so who?	NA S	ubcontract Lab	: NA		
 Are samples required to get sent to a subcontract laborato. Was a subcontract laboratory specified by the client and if 						

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 C

Work Order: E402195

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 Spill C

Workorder: E402195

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 Spill C.

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

ſ	Mack Energy	Project Name:	West Mount Spill C	Reported:
1	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/23/24 11:48

Client Sample ID	Lab Sample ID Matrix	Sampled Re	eceived	Container
SP 10-6'	E402195-01A Soil	02/20/24 02	2/22/24	Glass Jar, 2 oz.
SP 11-6'	E402195-02A Soil	02/20/24 02	2/22/24	Glass Jar, 2 oz.
SP 12-6'	E402195-03A Soil	02/20/24 02	2/22/24	Glass Jar, 2 oz.
SP 13-12'	E402195-04A Soil	02/20/24 02	2/22/24	Glass Jar, 2 oz.
SP 14-6'	E402195-05A Soil	02/20/24 02	2/22/24	Glass Jar. 2 oz.



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

SP 10-6' E402195-01

		E-102173-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· ·······	resur			•	7 11141 / 1244	
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	
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		92.5 %	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	342	40.0	2	02/22/24	02/22/24	

Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

SP 11-6' E402195-02

		E-102173-02				
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		92.7 %	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		95.3 %	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		103 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2408071
Chloride	51.1	20.0	1	02/22/24	02/22/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

SP 12-6'

		E402195-03				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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		93.0 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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		110 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2408071

20.0

25.8

02/22/24

02/22/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

SP 13-12'

		E402195-04				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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		92.7 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	02/22/24	02/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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		110 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2408071
Chloride	22.0	20.0	1	02/22/24	02/22/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

SP 14-6'

		E402195-05				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2408069
Benzene	ND	0.0250	1	02/22/24	02/23/24	
Ethylbenzene	ND	0.0250	1	02/22/24	02/23/24	
Toluene	ND	0.0250	1	02/22/24	02/23/24	
o-Xylene	ND	0.0250	1	02/22/24	02/23/24	
p,m-Xylene	ND	0.0500	1	02/22/24	02/23/24	
Total Xylenes	ND	0.0250	1	02/22/24	02/23/24	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	02/22/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2408069
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	02/22/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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		110 %	50-200	02/22/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2408071
Chloride	ND	20.0	1	02/22/24	02/22/24	



		QC 50	u 1111110	ny Data	a				
Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:	20	est Mount Sp 0046-0001 atalie Gladder				2/23	Reported: 3/2024 11:48:12AM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: RKS
Analyte		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: 0	2/22/24 Analy	yzed: 02/22/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			
LCS (2408069-BS1)							Prepared: 0	2/22/24 Analy	yzed: 02/22/24
Benzene	3.69	0.0250	5.00		73.8	70-130			
Ethylbenzene	3.87	0.0250	5.00		77.5	70-130			
Toluene	3.81	0.0250	5.00		76.1	70-130			
o-Xylene	3.84	0.0250	5.00		76.7	70-130			
o,m-Xylene	7.84	0.0500	10.0		78.4	70-130			
Total Xylenes	11.7	0.0250	15.0		77.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
Matrix Spike (2408069-MS1)				Source:	E402194-0	03	Prepared: 0	2/22/24 Analy	yzed: 02/22/24
Benzene	4.53	0.0250	5.00	ND	90.7	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
p-Xylene	4.74	0.0250	5.00	ND	94.8	63-131			
o,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			
Matrix Spike Dup (2408069-MSD1)				Source:	E402194-0	03	Prepared: 0	2/22/24 Analy	yzed: 02/22/24
Benzene	4.98	0.0250	5.00	ND	99.7	54-133	9.48	20	
		0.0250	5.00	ND	105	61-133	9.82	20	
Ethylbenzene	5.27	0.0250	5.00	112					
Ethylbenzene Foluene	5.27 5.17	0.0250	5.00	ND	103	61-130	9.53	20	
•	5.17 5.22					61-130 63-131	9.53 9.68	20 20	
Toluene	5.17	0.0250	5.00	ND	103			20	

8.00

7.59

94.9

70-130



Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			2/23	/2024 11:48:12AM
	Non	halogenated		Analyst: RKS					
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (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 Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/23/2024 11:48:12AM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				/23/2024 11:48:12A
	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 (2408068-BLK1)							Prepared: 0	2/22/24 An	alyzed: 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 An	alyzed: 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 An	alyzed: 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 An	alyzed: 02/22/24
tiesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.36	20	
urrogate: n-Nonane	55.3		50.0		111	50-200			



Chloride

QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager	20	est Mount Spi 046-0001 atalie Gladder					Reported: 2/23/2024 11:48:12AM
Attesia 1111, 00210				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 (2408071-BLK1)							Prepared: 02	2/22/24 A	nalyzed: 02/22/24
Chloride	ND	20.0							
LCS (2408071-BS1)							Prepared: 02	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: 02	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: 02	2/22/24 A	nalyzed: 02/22/24

250

20.0

32.0

99.2

80-120

1.69

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 C	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/23/24 11:48

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



	1	~	7
Page _)	_ of _	

	formation														1.54			_	-	FAT			EPA Pr	nergo
ent: M	ock Ene	SON 3	Bin C			Attention:	Bill To ENERGY STAFFI	ING SERVIC	ES	Laby	NO#	La	b Us	Job N	vumi	er 0-00	0 10) 2	0 30	AL THE STATE OF	andaro	t	CWA	SDW
ject N	lanager:				day.	Address: City State	Zip HOBBS, N	Y RD IM 88240			02	-17		Analy	sis an	d Met	hod	1/				875-1965 ·		RCR
ress:	e, Zip					Phone: 57	75-393-9048															intelligence	State	1
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ail: port d	ue by:				2	BR.	II INET@BNEKGT3			JRO b	GRO/DRO by 8015	BTEX by 8021	ny 826	\$ 6010	Chloride 300.0			4	7 1 2		79			1 1
Time mpled	Date Sampled	Matrix	No. of Containers	Sample ID				F %	Lab lumber	DRO/ORO by 8015	GRO/I	втех	VOC by 8260	Metals 6010	Chlor			BODOC	86000	-	-		Remarks	-
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			ity and auth	enticity of this s	ample. Far	n aware that ta	mpering with or intenti-	cnally mislabellin	ng the sam	ple loc	ation,			San	nples rec	quiring the	ermal pr	eservet ebove (ion must	te receiv	ed on ice the	ne day cent di	they are sam	plec er m
ate or ti Relinqui	me of collectionshed by: (Sig	n is conside nature)	ered fraud at C	nd may be groun late 02/20/24	ids for lega Time	action.	Sampled by: (signature)	Jun 2	10ate 2-2	ولوا	4 Tin	14	05	1		ed on		ال	b Use			in the		
elingu	So NS ished by: (Sig	nazūle)	2	2.2124	Time 14	160	eiver by: (Signature)	Mill	Date 2.	21:	9	ne 17	∞) <u>T:</u>	1		_	<u>T2</u>			<u></u>			
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Printed: 2/22/2024 2:37:30PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

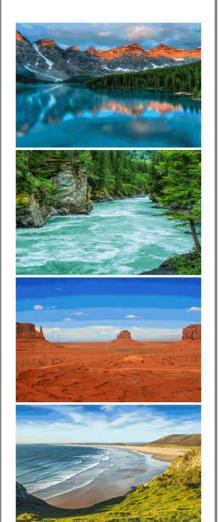
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	Mock Engray					
Client:		Date Received:	02/22/24 03		Work Order ID: E402195	
Phone:		Date Logged In:	02/21/24 10		Logged In By: Alexa Michaels	
Email:	Natalie@energystaffingllc.com	Due Date:	02/23/24 1	7:00 (1 day TAT)		
Chain of	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	h the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No			
5. Were a	all samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in t				Comments/Resolution	
Cample '	i.e, 15 minute hold time, are not included in this disucssion	l.		ı	Comments, Resolution	
	Turn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and time sampled are not	
			105		documented on the COC by client.	
Sample of Was a	sample cooler received?		Yes		documented on the coc by chent.	
	was cooler received in good condition?		Yes			
-	ne sample(s) received intact, i.e., not broken?					
			Yes			
	custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
12. Was t	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. Actual sample to	emperature: 4°0	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	iqueous VOC samples present?		No			
15. Are \(\)	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 r	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						
	field sample labels filled out with the minimum inform	mation:	V			
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
Sample	Preservation_		100			
	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	7?	No			
	a subcontract laboratory specified by the client and if s			Subcontract Lab	b: NA	
Client I	nstruction					
<u>enene i</u>	<u> </u>					_
						_

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 C

Work Order: E402209

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 Spill C

Workorder: E402209

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 Spill C.

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

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

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

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

Respectfully,

Walter Hinchman

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/26/24 14:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 8-3'	E402209-01A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 9-3'	E402209-02A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 10-3'	E402209-03A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 11-3'	E402209-04A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 12-3'	E402209-05A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 13-3'	E402209-06A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 14-3'	E402209-07A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 15-8'	E402209-08A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 16-3'	E402209-09A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 17-3'	E402209-10A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 18-3'	E402209-11A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.
SW 19-6'	E402209-12A	Soil	02/21/24	02/23/24	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 8-3' E402209-01

		E402209-01				
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	
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		95.9 %	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		95.3 %	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		113 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2408082
Chloride	88.1	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 9-3'

		E402209-02				
	Reporting					
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		95.7 %	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		94.5 %	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	Ana	alyst: IY		Batch: 2408082
Chloride	119	20.0	1	02/23/24	02/23/24	·



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 10-3' E402209-03

	1.402207 05				
Result	Reporting Limit	Dilution	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	
	95.5 %	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	
	95.1 %	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	Anal	yst: IY		Batch: 2408082
ND	20.0	1	02/23/24	02/23/24	
	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 MD 0.0250 MD 0.0250 MD 20.0250 95.5 % mg/kg Mg/kg mg/kg ND 20.0 95.1 % mg/kg ND 25.0 ND 50.0 117 % 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 95.5 % 70-130 mg/kg mg/kg Anal ND 20.0 1 95.1 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 117 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared 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 0.0500 1 02/23/24 ND 0.0250 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 50.0 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	Reporting 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: 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 50.0 1 02/23/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 11-3' E402209-04

	E-102207 04				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	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	
	93.1 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408078
ND	20.0	1	02/23/24	02/23/24	
	95.0 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408077
ND	25.0	1	02/23/24	02/23/24	
ND	50.0	1	02/23/24	02/23/24	
	116 %	50-200	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2408082
102	20.0	1	02/23/24	02/23/24	
	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 0.0250 93.1 % mg/kg MD 20.0 95.0 % mg/kg ND 25.0 ND 50.0 I16 % 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 93.1 % 70-130 mg/kg mg/kg Ana ND 20.0 1 95.0 % 70-130 mg/kg mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 116 % 50-200 mg/kg Mg/kg Ana	Reporting Result Limit Dilution Prepared 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 50.0 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	Reporting 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: 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 50.0 1 02/23/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 12-3' E402209-05

		E-102207-03				
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	
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		94.4 %	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		96.0 %	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		117 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2408082
Chloride	ND	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 13-3' E402209-06

		E-102207-00				
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		94.4 %	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		97.2 %	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	ND	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 14-3' E402209-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	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		94.3 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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		112 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2408082
Chloride	68.2	20.0	1	02/23/24	02/23/24	·



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 15-8'

		E402209-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: 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		93.9 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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		118 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2408082
Chloride	103	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 16-3' E402209-09

	1102207 07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	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	
	93.6 %	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	
	97.3 %	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	
	118 %	50-200	02/23/24	02/23/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2408082
ND	20.0	1	02/23/24	02/23/24	
	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 MD 0.0250 MD 0.0250 MD 20.0250 93.6 % mg/kg MD 20.0 97.3 % mg/kg ND 25.0 ND 50.0 118 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 93.6 % 70-130 mg/kg mg/kg Anal ND 20.0 1 97.3 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 118 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared 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 50.0 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	Reporting 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: 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 50.0 1 02/23/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 17-3' E402209-10

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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		93.6 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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		113 %	50-200	02/23/24	02/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2408082
Chloride	106	20.0	1	02/23/24	02/23/24	



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 18-3' E402209-11

	1.402207 11				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: 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	
	93.8 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408078
ND	20.0	1	02/23/24	02/23/24	
	98.0 %	70-130	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408077
ND	25.0	1	02/23/24	02/23/24	
ND	50.0	1	02/23/24	02/23/24	
	111 %	50-200	02/23/24	02/23/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2408082
74.3	20.0	1	02/23/24	02/23/24	
	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 0.0250 93.8 % mg/kg MD 20.0 98.0 % mg/kg ND 25.0 ND 50.0 III % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg Ma ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 93.8 % 70-130 mg/kg mg/kg Ana ND 20.0 1 98.0 % 70-130 mg/kg mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 111 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared 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 50.0 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	Reporting 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: 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 50.0 1 02/23/24



Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

SW 19-6'

		E402209-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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		93.1 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408078
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/23/24	02/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	02/23/24	02/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	lyst: IY		Batch: 2408082
Chloride	66.4	20.0	1	02/23/24	02/23/24	



QC Summary Data

West Mount Spill C Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/26/2024 2:02:43PM **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 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 Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			:	2/26/2024 2:02:43PM
	Nor	halogenated	Organics	by EPA 80	15D - G	RO			Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408078-BLK1)							Prepared: 0	2/23/24 Ar	nalyzed: 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 Ar	nalyzed: 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 Ar	nalyzed: 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 Ar	nalyzed: 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 Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/26/2024 2:02:43PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	n			2	2/26/2024 2:02:43PN
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408077-BLK1)							Prepared: 0	2/23/24 An	alyzed: 02/23/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.1		50.0		118	50-200			
LCS (2408077-BS1)							Prepared: 0	2/23/24 An	alyzed: 02/23/24
Diesel Range Organics (C10-C28)	259	25.0	250		103	38-132			
Surrogate: n-Nonane	61.6		50.0		123	50-200			
Matrix Spike (2408077-MS1)				Source:	E402208-	03	Prepared: 0	2/23/24 An	alyzed: 02/23/24
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	63.4		50.0		127	50-200			
Matrix Spike Dup (2408077-MSD1)				Source:	E402208-	03	Prepared: 0	2/23/24 An	alyzed: 02/23/24
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	14.2	20	
Surrogate: n-Nonane	61.2		50.0		122	50-200			



QC Summary Data

Mack Energy		Project Name:	W	est Mount Sp	ill C				Reported:
7 W. Compress Road		Project Number:	20	0046-0001					
Artesia NM, 88210		Project Manager:	: N	atalie Gladder	1				2/26/2024 2:02:43PM
		Anions	by EPA 3	00.0/9056 <i>A</i>	4				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:	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:	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

ſ	Mack Energy	Project Name:	West Mount Spill C	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/26/24 14:02

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.



								P. Trans		10	b Use	o On	lui.	Photo Par		_	TAT		EPA Pr	rogran
ent: N	lack Enes	24	50 v C			Bill To Attention: ENERGY STAFFING	SERVICES	IV-F	WOH	Ld	D OSC	Job 1	Vumbe	The state of	10	2D	3D	Standard	CWA	SDV
	west W.	STATE	SVIII C		1 4	Address: 2724 NW COUNTY RI)	FL	10	221	9	20	046-	-0001		X				1 001
dress:	Manager:				W.	City, State, Zip HOBBS, NM 8	8240				1	Analy	sis and	Method	1	V 1				RCI
y, Stat					100	Phone: 575-393-9048							1				4	ALL SE, ALVES	State	1
one:					(0)	Email: NATALIE@ENERGYSTAFF		8015	8015				0		-			NM CO	UT AZ	TX
nail:					3	BRITTNEY@ENERGYSTAF	FINGLLC.COM	, kq C	λqc	8021	3260	010	300		NW	X		7		
Time	Date	Matrix	No. of	Sample ID	reas	k	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		96000	BGDOC			Remarks	5
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Relinqui	shed by: (Sign	ature)	Da	d may be groun ate 12/21/24	time	Received by: (Signature)	L 22	2-25	f Tin	12 L	14	Re	eceive	d on ice	: (Lab l	Jse On N	ły		
	ished by: (Sign			ate	Time	Received by: (Signature)	Date	22.1	Tin		30	TI			<u>T.</u>	2		<u>T3</u>		
Dalin O.:	ished by: (Sign	aturel	in	ate	Time	Received by: (Signature)	Date	02.0	Tin	-		1								
Kennahi	ished by: (sign	ature)		2.22.20	1	100 Kung R Har	1 2-23	111	1	153	מי	A	VG Ter	nn °C	4					

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dress:		30111	<u>C</u>	A	ttention: ENER	GY STAFFING SERVIO IW COUNTY RD	ES .	Lab V	VO#	200	4	hno	umber 46-1	1001	10	X					
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port due by				200 P	7000			ORO	ORO	9 8 Kg	14 82	\$ 60	de 3			1		1	1_1		
Time Dat	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	верос	1	_		Remarks	
321	21 5	1	Sa	18-	3'		- 11								X						
02,	21 5	11	Sw	19-	6'		12								X			- August			
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Additional In	structions:																				
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Relinquished by	(Signature)	Da	nd may be ground ate DR/Z1/84	Time	Received by	Sampled by: Transis	Date 2	1-76	LTim	940	4	Re	reived	on ice:		100	lse Or	aly	160		
Relinquished by	(Signature)	1.	ate	Time	Receiped by	(Signature)	Date	12.2	Tim	e 1-1	2	71			T)		Т	3		

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Printed: 2/23/2024 8:44:37AM

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.

it we teceive no teshouse concerning mese items a	we receive no response concerning mese items within 24 hours or the date or this house, an the samples will be analyzed as requested:									
		-								
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02/22/24 1 02/26/24 1	8:12		
02/26/24 1		Logged In By:	Alexa Michaels
	7:00 (1 day TAT)		
			_
Yes			
Yes			
Yes	Carrier: C	Courier	
No	-		
Yes		Commen	ts/Resolution
		Project manager and tir	ne sampled are not
Yes		_	
••		documented on the CO	C by client.
Yes			
Yes			
No	ı		
NA			
Yes			
No			
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NO			
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No NA	Subcontract Lab	: NA	
	Yes No Yes Yes Yes Yes No NA Yes No NA NA Yes Yes Yes Yes Yes No NA	Yes Carrier: Converse No Yes Yes Yes Yes Yes Yes No NA Yes No NA Yes Carrier: Courier No Yes Commen Yes Project manager and tir documented on the CO Yes Yes Yes No NA Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	

MACK ENERGY: WEST MOUNT SPILL C DELINEATION SITE PHOTOS













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

Sent: Monday, October 7, 2024 1:25 PM

To: Natalie Gladden <natalie@energystaffingllc.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 390458

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#) nAPP2327834535.

The sampling event is expected to take place:

When: 10/09/2024 @ 07:00

Where: F-30-15S-29E 0 FNL 0 FEL (32.988705,-104.072056)

Additional Information: NATALIE GLADDEN 575-390-6397

Additional Instructions: 32.988708 -104.072056

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

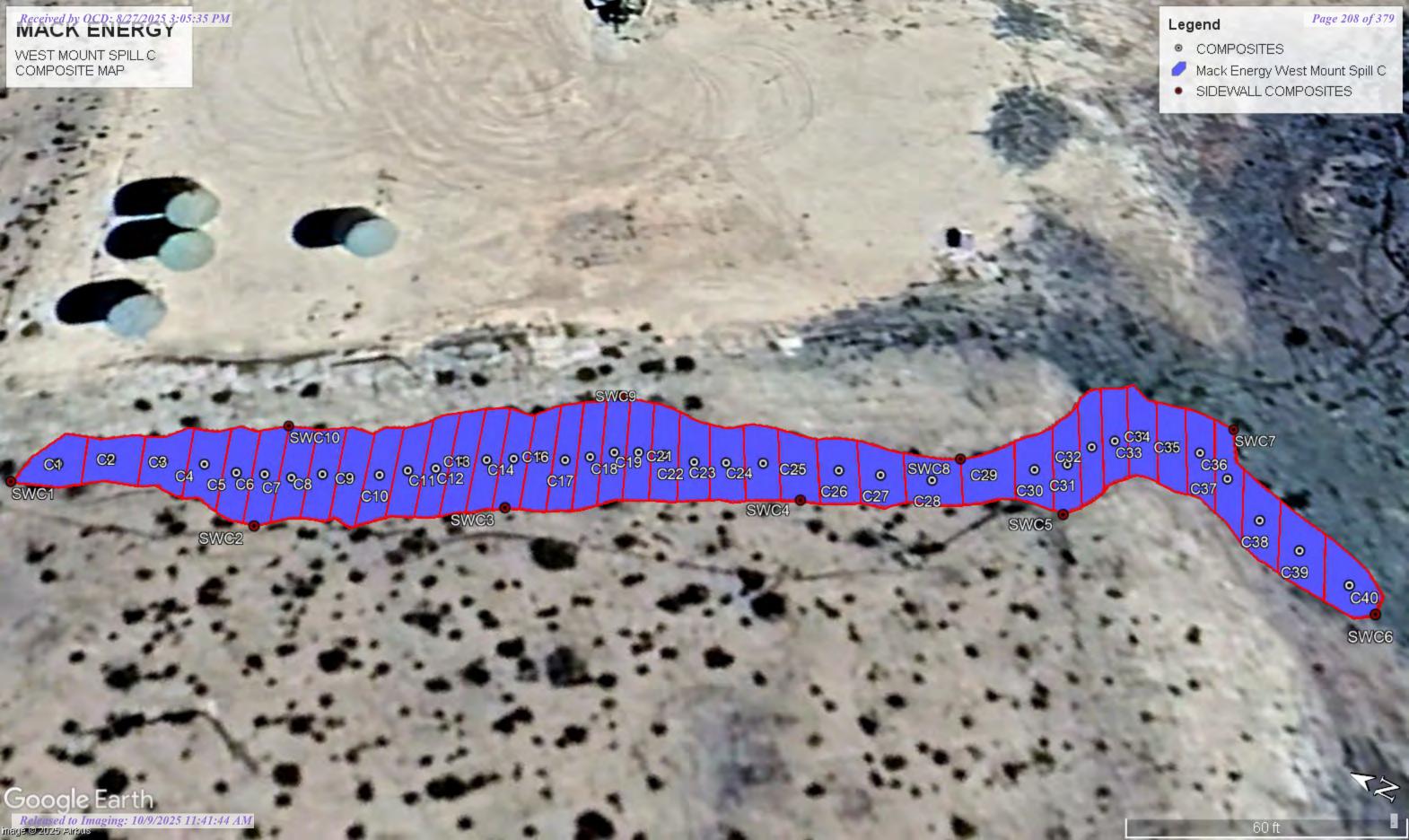
Company Name: MACK ENERGY Location Name: WEST MOUNT SPILL C Release Date:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil
COMP1	4	400	L	ND	ND	ND	ND	ND	415	
COMP2	4	400	L	ND	ND	ND	ND	ND	433	
СОМРЗ	4	400	L	ND	ND	ND	ND	ND	417	
COLADA	4	400		ND	ND	ND	ND	ND	424	
COMP4	4	400	L	ND	ND	ND	ND	ND	431	
COMP5	4	320	L	ND	ND	ND	ND	ND	327	
COIVII 5	7	320	_	ND	ND	ND	ND	ND	327	
COMP6	4	320	L	ND	ND	ND	ND	ND	358	
COMP7	4	320	L	ND	ND	ND	ND	ND	365	
COMP8	4	320	L	ND	ND	ND	ND	ND	364	
СОМР9	4	320	L	ND	ND	ND	ND	ND	381	
COMP10	4	220		ND	ND	ND	ND	ND	200	
COMPTO	4	320	L	ND	ND	ND	ND	ND	388	
COMP11	4	320	L	ND	ND	ND	ND	ND	412	
2011111	'	320	L	140	140	140	110	110	112	
COMP12	8	320	L	ND	ND	ND	ND	ND	414	
COMP13	8	240	L	ND	ND	ND	ND	ND	282	
COMP14	8	240	L	ND	ND	ND	ND	ND	187	
COMP15	8	160	L	ND	ND	ND	ND	ND	104	
COMPAC	0	160		ND	ND	NID	ND	ND	70.2	
COMP16	8	160	L	ND	ND	ND	ND	ND	70.2	

COMP17	4	160	L	ND	ND	ND	ND	ND	123	
COMP18	4	160	L	ND	ND	ND	ND	ND	66.2	
COMP19	4	320	L	ND	ND	ND	ND	ND	312	
CON 4 D 2 O	1	160		ND	ND	ND	NID	NID	70.2	
COMP20	4	160	L	ND	ND	ND	ND	ND	79.2	
COMP21	4	240	L	ND	ND	ND	ND	ND	195	
COMP21	4	240	L	IND	ND	ND	IND	IND	193	
COMP22	4	240	L	ND	ND	ND	ND	ND	200	
33			_							
COMP23	10	240	L	ND	ND	ND	ND	ND	241	
COMP24	10	160	L	ND	ND	ND	ND	ND	40.3	
COMP25	10	320	L	ND	ND	ND	ND	ND	372	
2211226	4.0	222							22.4	
COMP26	10	320	L	ND	ND	ND	ND	ND	224	
COMP27	10	320		ND	ND	ND	ND	ND	380	
COIVIP27	10	320	L	ND	ND	ND	ND	ND	360	
COMP28	4	240	L	ND	ND	ND	ND	ND	306	
2320		= .0	_							
COMP29	4	320	L	ND	ND	ND	ND	ND	291	
COMP30	8	400	L	ND	ND	25.6	ND	25.6	399	
COMP31	8	160	L	ND	ND	ND	ND	ND	389	
COMP32	4	400	L	ND	ND	ND	ND	ND	415	
COMPA	4	160	,	ND	ND	ND	ND	ND	72.0	
COMP33	4	160	L	ND	ND	ND	ND	ND	73.8	

COMP34	4	240	L	ND	ND	ND	ND	ND	227	
COMP35	4	320	L	ND	ND	ND	ND	ND	275	
2211225	_	400							40-	
COMP36	4	400	L	ND	ND	ND	ND	ND	425	
COMP37	4	320	L	ND	ND	ND	ND	ND	187	
COIVII 37	4	320	L	ND	ND	ND	ND	ND	107	
COMP38	4	160	L	ND	ND	ND	ND	ND	ND	
COMP39	4	160	L	ND	ND	ND	ND	ND	127	
COMP40	4	160	L	ND	ND	ND	ND	ND	118	
CINICONADA	4	240		ND	ND	NID	NID	NID	225	
SWCOMP1	4	240	L	ND	ND	ND	ND	ND	325	
SWCOMP2	4	240	L	ND	ND	ND	ND	ND	340	
SWCOIVII 2	7	240		IVE	110	110	IVD	IVD	340	
SWCOMP3	6	240	L	ND	ND	ND	ND	ND	327	
SWCOMP4	4	240	L	ND	ND	ND	ND	ND	317	
SWCOMP5	4	240	L	ND	ND	ND	ND	ND	78.3	
SWCOMPC	4	220		ND	ND	ND	ND	ND	215	
SWCOMP6	4	320	L	ND	ND	ND	ND	ND	215	
SWCOMP7	8	320	L	ND	ND	ND	ND	ND	212	
3		320	_	11.5	1,15	.,,,	1,12	.,,,,		
SWCOMP8	4	320	L	ND	ND	ND	ND	ND	230	
SWCOMP9	4	320	L	ND	ND	ND	ND	ND	219	
SWCOMP10	4	320	L	ND	ND	ND	ND	ND	219	

Released to Imaging: 10/9/2025 11:41:44 AM



COMPANY: MACK ENERGY LOCATION: WEST MOUNT SPILL C

POINT	LATITUDE	LONGITUDE				
C1	32.998748°	-104.072104°				
C2	32.998719°	-104.072081°				
C3	32.998686°	-104.072064°				
C4	32.998659°	-104.072051°				
C5	32.998635°	-104.072046°				
C6	32.998617°	-104.072037°				
C7	32.998599°	-104.072030°				
C8	32.998582°	-104.072016°				
C9	32.998564°	-104.072009°				
C10	32.998547°	-104.071996°				
C11	32.998532°	-104.071982°				
C12	32.998516°	-104.071970°				
C13	32.998504°	-104.071954°				
C14	32.998489°	-104.071944°				
C15	32.998473°	-104.071933°				
C16	32.998458°	-104.071921°				
C17	32.998441°	-104.071915°				
C18	32.998427°	-104.071903°				
C19	32.998414°	-104.071890°				
C20	32.998399°	-104.071881°				
C21	32.998382°	-104.071874°				
C22	32.998361°	-104.071869°				
C23	32.998341°	-104.071858°				
C24	32.998318°	-104.071845°				
C25	32.998295°	-104.071837°				
C26	32.998269°	-104.071824°				
C27	32.998242°	-104.071813°				
C28	32.998209°	-104.071799°				
C29	32.998176°	-104.071773°				
C30	32.998149°	-104.071752°				
C31	32.998130°	-104.071735°				
C32	32.998119°	-104.071709°				
C33	32.998106°	-104.071694°				
C34	32.998090°	-104.071678°				
C35	32.998069°	-104.071677°				
C36	32.998050°	-104.071672°				
C37	32.998028°	-104.071687°				
C38	32.998001°	-104.071714°				
C39	32.997972°	-104.071726°				
C40	32.997937°	-104.071737°				
SWC1	32.998766°	-104.072134°				

SWC2	32.998597°	-104.072080°
SWC3	32.998457°	-104.071977°
SWC4	32.998283°	-104.071864°
SWC5	32.998121°	-104.071783°
SWC6	32.997918°	-104.071753°
SWC7	32.998033°	-104.071634°
SWC8	32.998197°	-104.071769°
SWC9	32.998434°	-104.071836°
SWC10	32.998628°	-104.071989°

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 C

Work Order: E410139

Job Number: 20046-0001

Received: 10/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/16/24

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

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

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

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

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

Date Reported: 10/16/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount C

Workorder: E410139

Date Received: 10/15/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/15/2024 8:00:00AM, under the Project Name: West Mount C.

The analytical test results summarized in this report with the Project Name: West Mount C 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 C	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/24 15:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp Comp 1 - 4	E410139-01A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 2 - 4	E410139-02A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 3 - 4	E410139-03A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 4 - 4	E410139-04A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 5 - 4	E410139-05A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 6 - 4	E410139-06A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 7 - 4	E410139-07A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 8 - 4	E410139-08A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 9 - 4	E410139-09A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 10 - 4	E410139-10A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 11 - 4	E410139-11A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.
Sp Comp 12 - 4	E410139-12A	Soil	10/11/24	10/15/24	Glass Jar, 2 oz.

Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 1 - 4 E410139-01

		E410139-01				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Analyte	Resuit	Lillit	Dilution	r repared	Allalyzeu	rioles
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
foluene	ND	0.0500	2	10/15/24	10/15/24	
-Xylene	ND	0.0500	2	10/15/24	10/15/24	
,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
urrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	10/15/24	10/15/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2442056
riesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/15/24	
Dil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/15/24	
urrogate: n-Nonane		98.0 %	50-200	10/15/24	10/15/24	
anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: JM		Batch: 2442057
Chloride	415	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 2 - 4 E410139-02

		1.410157 02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Analyst: CG			Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
o,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/15/24	
Surrogate: n-Nonane		106 %	50-200	10/15/24	10/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: JM		Batch: 2442057
Chloride	433	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 3 - 4 E410139-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/15/24	
Surrogate: n-Nonane		103 %	50-200	10/15/24	10/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2442057
Chloride	417	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 4 - 4 E410139-04

		E-10137-0-				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/15/24	
Surrogate: n-Nonane		97.9 %	50-200	10/15/24	10/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: JM		Batch: 2442057
Chloride	431	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 5 - 4 E410139-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/15/24	
Surrogate: n-Nonane		95.5 %	50-200	10/15/24	10/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: JM		Batch: 2442057
Chloride	327	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 6 - 4 E410139-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/15/24	
Surrogate: n-Nonane		103 %	50-200	10/15/24	10/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: JM		Batch: 2442057
Chloride	358	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 7 - 4 E410139-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		101 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2442057
Chloride	365	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 8 - 4 E410139-08

		E+10137-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		106 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442057
Chloride	364	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 9 - 4 E410139-09

		E410157 07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Analy	st: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
-Xylene	ND	0.0500	2	10/15/24	10/15/24	
o,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		99.5 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442057
Chloride	381	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 10 - 4 E410139-10

		E410139-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		97.1 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442057
Chloride	388	20.0	1	10/15/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 11 - 4 E410139-11

		E410139-11					
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442051	
Benzene	ND	0.0500	2	10/15/24	10/15/24		
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24		
Toluene	ND	0.0500	2	10/15/24	10/15/24		
o-Xylene	ND	0.0500	2	10/15/24	10/15/24		
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24		
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24		
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/15/24	10/15/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442051	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %	70-130	10/15/24	10/15/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2442056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24		
Surrogate: n-Nonane		95.5 %	50-200	10/15/24	10/16/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442057	
Chloride	412	40.0	2	10/15/24	10/16/24		



Sample Data

Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Sp Comp 12 - 4

		E410139-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442051
Benzene	ND	0.0500	2	10/15/24	10/15/24	
Ethylbenzene	ND	0.0500	2	10/15/24	10/15/24	
Toluene	ND	0.0500	2	10/15/24	10/15/24	
o-Xylene	ND	0.0500	2	10/15/24	10/15/24	
p,m-Xylene	ND	0.100	2	10/15/24	10/15/24	
Total Xylenes	ND	0.0500	2	10/15/24	10/15/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442051
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/15/24	10/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	10/15/24	10/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2442056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		97.4 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442057
Chloride	414	40.0	2	10/15/24	10/16/24	



West Mount C Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 10/16/2024 3:17:52PM **Volatile Organics by EPA 8021B** Analyst: CG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2442051-BLK1) Prepared: 10/15/24 Analyzed: 10/15/24 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 8.09 8.00 101 70-130 LCS (2442051-BS1) Prepared: 10/15/24 Analyzed: 10/15/24 5.55 111 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.44 0.0250 5.00 109 70-130 5.52 0.0250 5.00 110 70-130 Toluene 5.45 109 o-Xylene 0.0250 5.00 70-130 11.1 10.0 111 70-130 0.0500 p.m-Xvlene 110 70-130 16.5 15.0 Total Xylenes 0.0250 8.00 101 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.04 Matrix Spike (2442051-MS1) Source: E410139-03 Prepared: 10/15/24 Analyzed: 10/15/24 11.5 0.0500 10.0 ND 115 54-133 Benzene ND 61-133 Ethylbenzene 11.3 0.0500 10.0 113 Toluene 11.5 0.0500 10.0 ND 115 61-130 11.3 ND 113 63-131 10.0 0.0500 o-Xylene p,m-Xylene 23.0 0.100 20.0 ND 115 63-131 0.0500 30.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 16.1 16.0 Matrix Spike Dup (2442051-MSD1) Source: E410139-03 Prepared: 10/15/24 Analyzed: 10/15/24 10.9 0.0500 10.0 ND 54-133 5.61 ND 61-133 5.37 10.7 0.0500 10.0 107 20 Ethylbenzene Toluene 109 0.0500 10.0 ND 109 61-130 5 57 20 10.7 0.0500 10.0 ND 107 63-131 5.43 20 o-Xylene 5.47 21.8 20.0 ND 109 63-131 20

0.100

0.0500

30.0

16.0

ND

108

101

63-131

70-130

5.46

20

32.5

16.1



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			10	0/16/2024 3:17:52PM
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2442051-BLK1)							Prepared: 1	0/15/24 Ana	alyzed: 10/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			
LCS (2442051-BS2)							Prepared: 1	0/15/24 Ana	alyzed: 10/15/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			
Matrix Spike (2442051-MS2)				Source:	E410139-	03	Prepared: 1	0/15/24 Ana	alyzed: 10/15/24
Gasoline Range Organics (C6-C10)	96.0	40.0	100	ND	96.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.6	70-130			
Matrix Spike Dup (2442051-MSD2)				Source:	E410139-	03	Prepared: 1	0/15/24 Ana	alyzed: 10/15/24
Gasoline Range Organics (C6-C10)	99.1	40.0	100	ND	99.1	70-130	3.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.8	70-130			

Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	-
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/2024 3:17:52PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			1	0/16/2024 3:17:52P
	Nonha	Nonhalogenated Organics by EPA 8015D - DRO/ORO							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442056-BLK1)							Prepared: 1	0/15/24 An	alyzed: 10/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.6		50.0		91.3	50-200			
LCS (2442056-BS1)							Prepared: 1	0/15/24 An	alyzed: 10/15/24
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			
Matrix Spike (2442056-MS1)				Source:	E410139-	01	Prepared: 1	0/15/24 An	alyzed: 10/15/24
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			
Matrix Spike Dup (2442056-MSD1)				Source:	E410139-	01	Prepared: 1	0/15/24 An	alyzed: 10/15/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	2.45	20	
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			

Mack Energy		Project Name:		Vest Mount C					Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladden					10/16/2024 3:17:52PM
		Anions	by EPA 3	800.0/9056A					Analyst: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442057-BLK1)							Prepared:	10/15/24 A	nalyzed: 10/16/24
Chloride	ND	20.0							
LCS (2442057-BS1)							Prepared:	10/15/24 A	nalyzed: 10/16/24
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2442057-MS1)				Source: 1	E410139-	02	Prepared:	10/15/24 A	nalyzed: 10/16/24
Chloride	714	20.0	250	433	112	80-120			
Matrix Spike Dup (2442057-MSD1)				Source: 1	E410139-	02	Prepared:	10/15/24 A	nalyzed: 10/16/24
Chloride	697	20.0	250	433	106	80-120	2.44	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 C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/16/24 15:17

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Client: N	here	C-nes	eru		Bill To	- 1 - 1 - 1			La	b Us	se On	ly	1			TAT		EPA P	rogram
	west	nous	+'C		Attention: ENERGY STAFFING S	ERVICES	Lab	WO#	1		Job	Numbe		1D	2D /3	BD S	Standard	CWA	SDWA
Project N	Manager:	The state of the s			Address: 2724 NW COUNTY RD		E	110	13	9		46.00			X				
Address:					City, State, Zip HOBBS, NM 88.	240					Analy	sis and	Method	t					RCRA
City, Stat	e, Zip				Phone: 575-393-9048												-		
Phone:					Email: NATALIE@ENERGYSTAFFIN	IGLLC.COM	015	015									will an	State	Tavil
Email:	-20 E.M.				BRITTNEY@ENERGYSTAFFI	NGLLC,COM	by 8	8 Aq	121	09	0	0.00		Σ	~		NM CO	UT AZ	TX
Report d			r			r	ORO	ORO	by 8021	y 82	s 60.	de 3			×		X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос			Remarks	
	10/4	5	(Spacing	01-4	1								X					
		1	1	Speamo	2-4	2								1					
				Speamp	3-4	3								1					
				Secomo		4													
				Span		5													
					26-4	6								1					
				Socamo	7-4	7													
				Spean	8-4	8													
				Spean		9													
	10/4	5	1	Spann	10-4	10								X					
Addition	al Instruc	tions:		1															
				icity of this sample. I ar	n aware that tampering with or intentionally misl action. Sampled by: Avolu	abelling the samp		ion,			1000000						ved on ice the day C on subsequent da		oled or receiv
Relinquish	ed by: (Sign:	ature)	Date	111	Réceived by: (Signature)	Date 10-14).4	Time	315		Rec	eived o	n ice:	100	ab Use	Only			
Refinguish	ed by (Sign	ture)	les 10	14-24 Time	Refered by: (Signature)	Date 10.14	.24	Time	46		T1			T2).		T3		
Religuish	ed by: (Signa	ature)	Date	14.7.4 Time	S Received by Signature Man	- 10.151	24	Time	00		AVG	Temp	°c	4					
Sample Mat	ix: S - Soil, So	d - Solid, Sg -		queous, O - Other		Containe	r Type	e: g - i	glass,	p - p	_			er gla	ss, v - V	OA			
					less other arrangements are made. Hazard												port for the an	alysis of the	e above
samples is	applicable c	nly to thos	e samples r	eceived by the labora	tory with this COC. The liability of the labor	atory is limited t	o the	amour	nt paid	ford	on the	report.							



Project	Informati
Client:	Merc

Chain of Custody

	1		D
Page	4	_ of _	

Received by OCD: 8/27/2025 3:05:35 PM

Page 23 of 24

Client: Much Grerey,	Bill To				La	ab Use	e On	ly			TAT	T	EPA Pr	ogram
Project: West MANNA C	Attention: ENERGY STAFFING SERV	Attention: ENERGY STAFFING SERVICES		WO#	VO# _		Job Number ,		1D			Standard	CWA	SDW
Project Manager:	Address: 2724 NW COUNTY RD		E4	10	139	9	200	46.0001		X				
Address:	City, State, Zip HOBBS, NM 88240					-	Analy	sis and Meth	od					RCRA
City, State, Zip	Phone: 575-393-9048													
Phone:	Email: NATALIE@ENERGYSTAFFINGLI	.C.COM	15	15				- 4 - 4				Language	State	
mail:	BRITTNEY@ENERGYSTAFFINGI		y 80	y 80	et	0		0.0	5			NM CO	UT AZ	TX
leport due by:			30 b	30 b	805	826	601(e 300.	Z	×		X		
Time Date Matrix No. of Containers Sam	D	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride	верос	BGDOC			Remarks	
10)	9000 CI - 4	11			-				X					
100 6	omp 11-4		-							0				
10/11 S 1 S	Junp 12-4	15							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-				
		The state of										V		
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		The t												
									1	1				
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		1												
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		1-									-			
dditional Instructions:														
field sampler), attest to the validity and authenticity o	sample. I am aware that tampering with or intentionally mislabell	ing the sample	locati	ion,		-						ceived on ice the day		oled or rece
te or time of collection is considered fraud and may be	nds for legal action. Sampled by: Andu	Cen	30	1			packe	d in ice at an avg te	mp abov	e 0 but l	ess than 6	°C on subsequent d	ays.	
elinquished by: (Signature) ANAU TONES Date 18/11	Time Refleived by (Signature) ngales	10-14	24	Time	312		Rec	eived on ice			Jse On N	ly		
Pinquished by (Signature) Victorial Gonzales 10-14.	Time Regelved by: (Signature)	Date 10.14		Time			T1		T2			<u>T3</u>		
Date (Signature)	Time Received by Signature) Mr.	ID-15	14	Time	(a)		AVO	G Temp °C_	4					
10114.	Other	Containe	-	TO.			A Land La		_	_				



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envirotech Inc.

Printed: 10/15/2024 10:06:14AM

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:	10/15/24 08:00	l	Work Order II	D: E410139
Phone:	(575) 390-6397	Date Logged In:	10/14/24 15:18		Logged In By	: Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	10/16/24 17:00	(1 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location mate	ch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	`ourier	
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	No	Carrier. <u>c</u>	<u> </u>	
	Il samples received within holding time?	, ,	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio				Comm	nents/Resolution
Sample T	<u> </u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and	•
Sample (<u>Cooler</u>				missing on COC by o	client.
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°C	<u> </u>			
Sample (<u>Container</u>					
14. Are a	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field Lal	<u>oel</u>					
20. Were	field sample labels filled out with the minimum info	rmation:				
	ample ID?		Yes			
	ate/Time Collected? ollectors name?		Yes	'		
			No			
	<u>Preservation</u> the COC or field labels indicate the samples were pr	acarriad?	No			
	ample(s) correctly preserved?	esci ved:	NA			
	filteration required and/or requested for dissolved m	etale?	No			
		ctais:	NU			
	se Sample Matrix	9				
	the sample have more than one phase, i.e., multiphas		No			
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA			
	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborator	y ?	No			
29. Was a	subcontract laboratory specified by the client and if	so who?	NA Sub	contract Lab	o: NA	
Client I	<u>nstruction</u>					

Date

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

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount C

Work Order: E410152

Job Number: 20046-0001

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/17/24

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

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

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

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

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

Date Reported: 10/17/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount C

Workorder: E410152

Date Received: 10/16/2024 7:45:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 7:45:00AM, under the Project Name: West Mount C.

The analytical test results summarized in this report with the Project Name: West Mount C 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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Michelle Gonzales

Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount C	Denouted
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/24 14:47

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
SP Comp 13-8	E410152-01A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 14-8	E410152-02A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 15-8	E410152-03A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 16-8	E410152-04A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 17-4	E410152-05A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 18-4	E410152-06A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 19-4	E410152-07A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 20-4	E410152-08A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp Comp 21-4	E410152-09A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 22-4	E410152-10A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 23-10	E410152-11A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 24-10	E410152-12A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 25-10	E410152-13A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 26-10	E410152-14A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 27-4	E410152-15A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 13-8 E410152-01

		E-10132-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		97.2 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2442093
Chloride	282	40.0	2	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 14-8 E410152-02

		E-10132-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		102 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2442093
Chloride	187	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 15-8 E410152-03

		L410132 05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		87.2 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		101 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442093
Chloride	104	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 16-8 E410152-04

		2.10162 0.				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
oluene	ND	0.0250	1	10/16/24	10/16/24	
-Xylene	ND	0.0250	1	10/16/24	10/16/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		89.2 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		97.7 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2442093
Chloride	70.2	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 17-4 E410152-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		88.6 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.6 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		96.9 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2442093
Chloride	123	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
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SP Comp 18-4 E410152-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		89.4 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		99.9 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2442093
Chloride	66.2	20.0	1	10/16/24	10/16/24	·



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 19-4 E410152-07

		E-10132-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG	<u> </u>	Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		103 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442093
Chloride	312	100	5	10/16/24	10/16/24	



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7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 20-4 E410152-08

		L-110132 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		99.6 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442093
Chloride	79.2	20.0	1	10/16/24	10/16/24	



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SP Comp Comp 21-4

E410152-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		102 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442093
Chloride	195	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 22-4 E410152-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		89.8 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		104 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2442093
Chloride	200	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 23-10

		E410152-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		104 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442093
Chloride	241	40.0	2	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 24-10

		E410152-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442097
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
o,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		90.9 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		103 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2442093
Chloride	40.3	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 25-10

E410152-13

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		106 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2442093
Chloride	372	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 26-10

E410152-14

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		87.5 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		97.3 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2442093
Chloride	224	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

SP Comp 27-4

		E410152-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442097
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442097
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2442096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/24	10/17/24	
Surrogate: n-Nonane		100 %	50-200	10/16/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2442093
Chloride	380	20.0	1	10/16/24	10/16/24	



		QC S	umm	iry Data	l.				
Mack Energy 7 W. Compress Road		Project Name: Project Number:		West Mount C 20046-0001					Reported:
Artesia NM, 88210		Project Manager:	N	atalie Gladden					10/17/2024 2:47:56PM
		Volatile O	rganics b	oy EPA 802	1B				Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442097-BLK1)							Prepared: 1	0/16/24 A	nalyzed: 10/16/24
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	7.03		8.00		87.9	70-130			
LCS (2442097-BS1)							Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.8	70-130			
Matrix Spike (2442097-MS1)				Source: 1	E 410152 -1	14	Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Benzene	10.1	0.0500	10.0	ND	101	54-133			
Ethylbenzene	9.86	0.0500	10.0	ND	98.6	61-133			
Toluene	10.0	0.0500	10.0	ND	100	61-130			
o-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
p,m-Xylene	20.0	0.100	20.0	ND	99.9	63-131			
Total Xylenes	29.8	0.0500	30.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.2		16.0		88.8	70-130			
Matrix Spike Dup (2442097-MSD1)				Source: 1	E 410152- 1	14	Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Benzene	10.3	0.0500	10.0	ND	103	54-133	1.60	20	
Ethylbenzene	9.96	0.0500	10.0	ND	99.6	61-133	1.08	20	
Toluene	10.2	0.0500	10.0	ND	102	61-130	1.34	20	
o-Xylene	9.93	0.0500	10.0	ND	99.3	63-131	1.13	20	
p,m-Xylene	20.2	0.100	20.0	ND	101	63-131	1.11	20	
Total Xylenes	30.1	0.0500	30.0	ND	100	63-131	1.12	20	
•									



14.1

16.0

88.1

70-130

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	n			10/	17/2024 2:47:56PM
	Non	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2442097-BLK1)							Prepared: 1	0/16/24 Anal	yzed: 10/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			
LCS (2442097-BS2)							Prepared: 1	0/16/24 Anal	yzed: 10/16/24
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			
Matrix Spike (2442097-MS2)				Source:	E410152-	14	Prepared: 1	0/16/24 Anal	yzed: 10/16/24
Gasoline Range Organics (C6-C10)	92.0	40.0	100	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	16.0		16.0		100	70-130			
Matrix Spike Dup (2442097-MSD2)				Source:	E410152-	14	Prepared: 1	0/16/24 Anal	yzed: 10/16/24
Gasoline Range Organics (C6-C10)	89.0	40.0	100	ND	89.0	70-130	3.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.8		16.0		98.5	70-130			



Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 2:47:56PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			10	/17/2024 2:47:56P
	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 (2442096-BLK1)							Prepared: 1	0/16/24 Ana	lyzed: 10/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			
LCS (2442096-BS1)							Prepared: 1	0/16/24 Ana	lyzed: 10/16/24
Diesel Range Organics (C10-C28)	234	25.0	250		93.8	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			
Matrix Spike (2442096-MS1)				Source:	E410152-	01	Prepared: 1	0/16/24 Ana	lyzed: 10/17/24
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			
Matrix Spike Dup (2442096-MSD1)				Source:	E410152-	01	Prepared: 1	0/16/24 Ana	lyzed: 10/17/24
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	0.503	20	
Surrogate: n-Nonane	53.1		50.0		106	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount C 0046-0001					Reported:
Artesia NM, 88210		Project Manager	: N	atalie Gladder	1				10/17/2024 2:47:56PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442093-BLK1)							Prepared:	10/16/24 A	nalyzed: 10/16/24
Chloride	ND	20.0							
LCS (2442093-BS1)							Prepared:	10/16/24 A	nalyzed: 10/16/24
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2442093-MS1)				Source:	E410152-	05	Prepared:	10/16/24 A	nalyzed: 10/16/24
Chloride	389	20.0	250	123	106	80-120			
Matrix Spike Dup (2442093-MSD1)				Source:	E410152-	05	Prepared:	10/16/24 A	nalyzed: 10/16/24
Chloride	386	20.0	250	123	105	80-120	0.845	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 C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/24 14:47

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.



Refigised to Imaging: 10/9/2025 11:41:44 AM

Project Information Project: West Mount Email: Phone: City, State, Lip Address Project Manager Client: Mack Report due by Sanipled Additional Instructions: 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 have or time of collection is considered fraud and may be grounds for legal action. Relinquished by: (Signature) theid sampled, altest to the validity and authenticity of this sample. Lam aware that tampeting with or intentionally myslabelling the sample foretion. 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. λ 0 Dain c Googales 30.01 1 10.15.24 2230 K75101 <u> 10</u>1년 Sample ID Spc6mp 14-8 Sp.comp 13-8 Spranp lu-8 20mp 15-8 2016mb19-4 7-01 daysod H- PE domos domosodo H-BIdmosde 200mmp 22-4 P-11 gangl 1 me Email NATALLEMENERGYSTAFFINGLICCOM City, State, Zip Address: 2724 NW COUNTY RD Attention: ENERGY STAFFING SERVICES rrittney@energystaffinglic com Received by: (Signature 575-393-9048 sampled by And HOBBS, NM 88240 Chain of Custody Number Lab 10-15-24 رو Container Type: g glass, p poly/plastic, ag amber glass, v VOA WE-91-01 すっから ٥ 00 6 5 40152 Lab WO# DRO/ORO by 8015 GRO/DRC by 8013 Sh£0 345 BTEX by 8021 ab Use Only 000 by \$360 20046-0001 Job Number inalysis and Method Metals 6010 Samples rearrant thereof preservation must be received on use the day they are samples or received packed in ice at an augitemp above 0 but less than 6 'C on subscovert days AVG Temp °C 1 Received on ice: Chloride 300.0 Б BGDQC NM 20 Lab Use Only

(1)/ N SGDOC IX 30 Standard NM 6 Page _ 5 Remarks SWA AW **EPA Program** Ą of 2 SDWA $\vec{\mathsf{x}}$ RCRA

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Project Information

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0

Client: A	ALICY	anen			100	Bill To		RIF		La	ab Us	se Onl	y is a				TA	Т	EPA P	rogram
Project:	neick	sonA	C		Att	Attention: ENERGY STAFFING SERVICES		Lab	Lab WO#		0.00	Job Number		Jan.	1D	2D	3D	Standard	CWA	SDWA
	/lanager:				(C)	dress: 2724 NW COUNTY RD		E	410	150			16-000			X				
Address:					Cit	y, State, Zip HOBBS, NM 8824	0					Analys	is and M	etho	t	1		174.14		RCRA
City, Stat					Ph	one: 575-393-9048														
Phone:					Em	ail: NATALIE@ENERGYSTAFFING	LLC.COM	115	115										State	
Email:						BRITTNEY@ENERGYSTAFFIN	GLLC.COM	3y 8C	94 8C	21	0	0	0.00		MN			-	UT AZ	TX
Report d	ue by:				100			ROL	ROE	γ 80	,826	601	Je 30			×		X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ by 8021	voc by 8260	Metals 6010	Chloride 300.0		BGDOC	ВСООС			Remarks	
	10/14/14	5	1	Spron	023-	10	11								X					
				Sprow	1024-	10	12								1					
				Sprow	no 25-	10	13													
		1		Spicony	26-	16	14								(
	10/14/14	5		Sprom	027-	4	15								X					
					\		+NS	24												
									-	-					-					
				-					-	-	-			-	-	-				
									-	+	-			-	-	-				
Addition	nal Instruc	tions.					h.									1				
I, (field san	pler), attest to	the validit		ticity of this samp		that tampering with or intentionally mislate	celling the samp	le locat	tion,									eived on ice the day °C on subsequent d		ed or received
Relinquish	ned by: (Sign	ature)	Date	3/4/24	me	Received by: (Signature), Vichelle Gonzal	es lo No	24	Time	343	2	Rece	ived on	ice:	G	ab U	se Onl	ly		
Relinguisl	ned by: (Sign	Jons	rles 10	15.24	ne 1615	Recoved by/(Signature)	10.15	5.24	Time	61.	5	T1			<u>T2</u>		7	<u>T3</u>		
Relinquisi		ature)	Date		723c	Received by: (Signature)	10 -16	-24	Time	74	5	AVG	Temp °(l		1 P	7 - 4		
Sample Ma	trix: S - Soil S	1 - Solid Se	- Sludge A -	Aqueous O - Oth	er		Containe	er Typ	e:g-	glass	, p - p	ooly/pl	astic, ag-	amb	er gla	iss, v	- VOA			
Note: Sar	nples are dis	carded 30	days after r	esults are repor	ted unless of	her arrangements are made. Hazardo	us samples wi	ll be re	eturne	ed to c	lient c	or dispo	sed of at t	he clie	ent ex	pense	. The r	eport for the an	alysis of the	above
samples i	s applicable	only to tho	se samples	received by the	laboratory v	ith this COC. The liability of the laborat	tory is limited	to the	amou	int pai	d for	on the r	eport.							



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Printed: 10/16/2024 8:58:20AM

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:	10/16/24 07	7:45		Work Order ID:	E410152
Phone:	(575) 390-6397	Date Logged In:	10/15/24 15	5:11		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	10/17/24 13	7:00 (1 day TAT)			
	Custody (COC)						
	ne sample ID match the COC?	1.1.000	Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)					• . •	1 1 .
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		I -	=	e sampled not
Sample C	<u>Cooler</u>				provided o	n COC per cl	ient.
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	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 t	<u>~</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers')	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab		iers conceteu.	103				
	field sample labels filled out with the minimum info	ermation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
Sample P	<u>reservation</u>						
	the COC or field labels indicate the samples were pr	eserved?	No				
	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborator	ry?	No				
	subcontract laboratory specified by the client and it	-	NA :	Subcontract Lab	o: NA		
Client In	struction						
<u>eneme ra</u>	in detroit						

Date

Report to:

Natalie Gladden





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount C

Work Order: E410166

Job Number: 20046-0001

Received: 10/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/18/24

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: 10/18/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount C

Workorder: E410166

Date Received: 10/17/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/17/2024 8:00:00AM, under the Project Name: West Mount C.

The analytical test results summarized in this report with the Project Name: West Mount C 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 C	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/24 14:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 28-4	E410166-01A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 29-4	E410166-02A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 30-8	E410166-03A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 31-8	E410166-04A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 32-4	E410166-05A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 33-4	E410166-06A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 34-4	E410166-07A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 35-4	E410166-08A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 36-4	E410166-09A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP Comp 37-4	E410166-10A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 28-4 E410166-01

		E410100-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122
Benzene	ND	0.0500	2	10/17/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24	
Toluene	ND	0.0500	2	10/17/24	10/18/24	
o-Xylene	ND	0.0500	2	10/17/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/17/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442130
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24	
Surrogate: n-Nonane		96.3 %	50-200	10/17/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442124
Chloride	306	40.0	2	10/17/24	10/17/24	

Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 29-4

E410166-02							
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442122	
Benzene	ND	0.0250	1	10/17/24	10/18/24		
Ethylbenzene	ND	0.0250	1	10/17/24	10/18/24		
Toluene	ND	0.0250	1	10/17/24	10/18/24		
o-Xylene	ND	0.0250	1	10/17/24	10/18/24		
p,m-Xylene	ND	0.0500	1	10/17/24	10/18/24		
Total Xylenes	ND	0.0250	1	10/17/24	10/18/24		
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	10/17/24	10/18/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442122	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/18/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	10/17/24	10/18/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442130	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24		
Surrogate: n-Nonane		93.7 %	50-200	10/17/24	10/18/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442124	
Chloride	291	20.0	1	10/17/24	10/17/24		



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 30-8

		E410166-03				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442122
Benzene	ND	0.0500	2	10/17/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24	
Toluene	ND	0.0500	2	10/17/24	10/18/24	
o-Xylene	ND	0.0500	2	10/17/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/17/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442122
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: AF		Batch: 2442130
Diesel Range Organics (C10-C28)	25.6	25.0	1	10/17/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24	
Surrogate: n-Nonane		93.8 %	50-200	10/17/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2442124
Chloride	399	40.0	2	10/17/24	10/17/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 31-8

		E410166-04				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442122
Benzene	ND	0.0500	2	10/17/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24	
Toluene	ND	0.0500	2	10/17/24	10/18/24	
o-Xylene	ND	0.0500	2	10/17/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/17/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442122
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: AF		Batch: 2442130
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24	
Surrogate: n-Nonane		97.1 %	50-200	10/17/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2442124

40.0

389

2

10/17/24

10/17/24



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 32-4

		E410166-05					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122	
Benzene	ND	0.0500	2	10/17/24	10/18/24		
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24		
Toluene	ND	0.0500	2	10/17/24	10/18/24		
o-Xylene	ND	0.0500	2	10/17/24	10/18/24		
p,m-Xylene	ND	0.100	2	10/17/24	10/18/24		
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24		
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	10/17/24	10/18/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130	10/17/24	10/18/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442130	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24		
Surrogate: n-Nonane		95.7 %	50-200	10/17/24	10/18/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442124	
Chloride	415	40.0	2	10/17/24	10/17/24		



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 33-4

		E410166-06					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442122	
Benzene	ND	0.0250	1	10/17/24	10/17/24		
Ethylbenzene	ND	0.0250	1	10/17/24	10/17/24		
Toluene	ND	0.0250	1	10/17/24	10/17/24		
o-Xylene	ND	0.0250	1	10/17/24	10/17/24		
p,m-Xylene	ND	0.0500	1	10/17/24	10/17/24		
Total Xylenes	ND	0.0250	1	10/17/24	10/17/24		
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	10/17/24	10/17/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442122	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/17/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	10/17/24	10/17/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442130	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24		
Surrogate: n-Nonane		95.0 %	50-200	10/17/24	10/18/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442124	
Chloride	73.8	20.0	1	10/17/24	10/17/24		



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 34-4

		E410166-07						
Reporting								
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442122		
Benzene	ND	0.0500	2	10/17/24	10/18/24			
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24			
Toluene	ND	0.0500	2	10/17/24	10/18/24			
o-Xylene	ND	0.0500	2	10/17/24	10/18/24			
p,m-Xylene	ND	0.100	2	10/17/24	10/18/24			
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24			
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	10/17/24	10/18/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: CG		Batch: 2442122		
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	10/17/24	10/18/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: AF		Batch: 2442130		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24			
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24			
Surrogate: n-Nonane		94.3 %	50-200	10/17/24	10/18/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2442124		
Chloride	227	20.0	1	10/17/24	10/17/24			



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 35-4

		E410166-08					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122	
Benzene	ND	0.0500	2	10/17/24	10/18/24		
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24		
Toluene	ND	0.0500	2	10/17/24	10/18/24		
o-Xylene	ND	0.0500	2	10/17/24	10/18/24		
p,m-Xylene	ND	0.100	2	10/17/24	10/18/24		
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24		
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	10/17/24	10/18/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	70-130	10/17/24	10/18/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442130	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24		
Surrogate: n-Nonane		92.8 %	50-200	10/17/24	10/18/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442124	
Chloride	275	20.0	1	10/17/24	10/17/24		



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 36-4 E410166-09

		E410100-09				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442122
Benzene	ND	0.0500	2	10/17/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/17/24	10/18/24	
Toluene	ND	0.0500	2	10/17/24	10/18/24	
-Xylene	ND	0.0500	2	10/17/24	10/18/24	
o,m-Xylene	ND	0.100	2	10/17/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/17/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442122
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/17/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442130
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24	
Surrogate: n-Nonane		96.4 %	50-200	10/17/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442124
Chloride	425	40.0	2	10/17/24	10/17/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

SP Comp 37-4

		E410166-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122
Benzene	ND	0.0250	1	10/17/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/17/24	10/18/24	
Toluene	ND	0.0250	1	10/17/24	10/18/24	
o-Xylene	ND	0.0250	1	10/17/24	10/18/24	
p,m-Xylene	ND	0.0500	1	10/17/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/17/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442122
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.6 %	70-130	10/17/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442130
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24	
Surrogate: n-Nonane		92.8 %	50-200	10/17/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442124
Chloride	187	20.0	1	10/17/24	10/17/24	



		QC S	umma	пу рац	1				
Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount C 20046-0001					Reported:
Artesia NM, 88210		Project Manager:	N	atalie Gladden					10/18/2024 2:08:55PM
		Volatile O	rganics b	oy EPA 802	1B				Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442122-BLK1)							Prepared: 1	0/17/24 A	nalyzed: 10/17/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.9	70-130			
LCS (2442122-BS1)							Prepared: 1	0/17/24 A	analyzed: 10/18/24
Benzene	4.33	0.0250	5.00		86.7	70-130			
Ethylbenzene	4.38	0.0250	5.00		87.7	70-130			
Toluene	4.41	0.0250	5.00		88.3	70-130			
o-Xylene	4.39	0.0250	5.00		87.7	70-130			
p,m-Xylene	8.93	0.0500	10.0		89.3	70-130			
Total Xylenes	13.3	0.0250	15.0		88.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			
Matrix Spike (2442122-MS1)				Source:	E410166-	06	Prepared: 1	0/17/24 A	nalyzed: 10/17/24
Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.1	61-133			
Toluene	4.88	0.0250	5.00	ND	97.5	61-130			
o-Xylene	4.83	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			
Matrix Spike Dup (2442122-MSD1)				Source:	E410166-	06	Prepared: 1	0/17/24 A	nalyzed: 10/17/24
Benzene	4.54	0.0250	5.00	ND	90.7	54-133	6.62	20	
Ethylbenzene	4.51	0.0250	5.00	ND	90.1	61-133	6.40	20	
Toluene	4.57	0.0250	5.00	ND	91.3	61-130	6.58	20	
o-Xylene	4.55	0.0250	5.00	ND	91.0	63-131	6.09	20	
p,m-Xylene	9.14	0.0500	10.0	ND	91.4	63-131	6.27	20	
Total Villanas	127	0.0250	15.0	ND	01.2	62 121	6.21	20	



13.7

7.43

0.0250

15.0

8.00

ND

91.3

92.9

63-131

70-130

6.21

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

5.W.C. D. 1	Project Name:	West Mount C	Reported:
7 W. Compress Road Artesia NM, 88210	Project Number: Project Manager:	20046-0001 Natalie Gladden	10/18/2024 2:08:55PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			10/	18/2024 2:08:55PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2442122-BLK1)							Prepared: 1	0/17/24 Anal	yzed: 10/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			
LCS (2442122-BS2)							Prepared: 1	0/17/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			
Matrix Spike (2442122-MS2)				Source:	E410166-	06	Prepared: 1	0/17/24 Anal	yzed: 10/17/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			
Matrix Spike Dup (2442122-MSD2)				Source:	E410166-	06	Prepared: 1	0/17/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.7	70-130	9.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:08:55PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			1	0/18/2024 2:08:55Pl
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442130-BLK1)							Prepared: 1	0/17/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			
LCS (2442130-BS1)							Prepared: 1	0/17/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	247	25.0	250		98.6	38-132			
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			
Matrix Spike (2442130-MS1)				Source:	E410166-	01	Prepared: 1	0/17/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			
Matrix Spike Dup (2442130-MSD1)				Source:	E410166-	01	Prepared: 1	0/17/24 An	alyzed: 10/18/24
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	1.04	20	
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Mack Energy		Project Name:		est Mount C					Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladden					10/18/2024 2:08:55PM
		Anions	by EPA 3	800.0/9056A					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 (2442124-BLK1)							Prepared:	10/17/24 A	nalyzed: 10/17/24
Chloride	ND	20.0							
LCS (2442124-BS1)							Prepared:	10/17/24 A	nalyzed: 10/17/24
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2442124-MS1)				Source: 1	E410165-	05	Prepared:	10/17/24 A	nalyzed: 10/17/24
Chloride	766	20.0	250	492	109	80-120			
Matrix Spike Dup (2442124-MSD1)				Source: 1	E410165-	05	Prepared:	10/17/24 A	nalyzed: 10/17/24
Chloride	716	20.0	250	492	89.4	80-120	6.73	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 C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/24 14:08

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Project Manager

City, State, Zip

Report due by

Address:

Phone:

Email:

Sampled

Client: Mack Guergy

Project: west nevert

Date

Sampleri

10/15

we of

Continuer

Matrix

10/15

ACTURE LEGICAL LEGICAL CONTRACTOR AND ACTURE								the day they are sampled or received
(field sampler), altest to the validity and	outhenically of this sa	ample Tamaware	that tampeting with or intentionally mislabelling	ng the sample locati	an,	Samples requiring thermal placked in ice at an ave temp	above 0 but less than 6 "Con :	mine the day they are sampled or received subscovent days
late or time of collection is considered frac-	id and may be groun	ds for legal action.	TA A TOTAL T	Inate	Time		Lab Use Only	
Relinquished by (Signature)	Date	Time	Welle Gonzales	10-16-24	1336	Received on ice:	ON M	
Relinquished by (Signature)	Date	Time	Received by (Signature)	LO/16/14	1635	T1	<u>12</u>	<u>13</u>
Michelle Gonzous	101621	Time	Roceyco by (Sygnature)	Date	Time		4	
Relinquished by (Signature)	10/16/24	2240	(artha Man	10.17.24	8:00	AVG Temp °C	AOV v szele te	
and the state of the	or a Aguaque O	Other		Container Typ	ie. g. glass, p	poly/plastic, ag aml	and eveness. The renot	rt for the analysis of the above

10

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 exp 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.

Received by OCD: 8/27/2025 3:05:35 PM

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Page 20

Page 283 of 379

Printed: 10/17/2024 9:05:06AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Mack Energy	Date Received:	10/17/24 08	3:00		Work Order ID:	E410166
Phone:	(575) 390-6397	Date Logged In:	10/16/24 14	1:36		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	10/18/24 17	7:00 (1 day TAT)			
	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: <u>C</u>	Courier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)				n ·	1.4	1 1 4
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		I -	-	ne sampled not
Sample C	<u>Cooler</u>				provided or	n COC per cl	ient.
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	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				
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				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers')	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab		iers conceteu.	103				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
D	ate/Time Collected?		Yes	ı			
C	ollectors name?		No				
	<u>reservation</u>						
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	netals?	No				
	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborator	ry?	No				
	subcontract laboratory specified by the client and it	-	NA S	Subcontract Lab	o: NA		
Client In	astruction_						
<u>eneme ra</u>	in detroit						

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 C

Work Order: E410179

Job Number: 20046-0001

Received: 10/18/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 10/21/24

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: 10/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount C

Workorder: E410179

Date Received: 10/18/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/18/2024 8:00:00AM, under the Project Name: West Mount C.

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

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Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount C	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 17:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 1-4	E410179-01A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 2-4	E410179-02A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 3-6	E410179-03A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 4-4	E410179-04A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 5-4	E410179-05A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 6-4	E410179-06A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 7-8	E410179-07A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 8-4	E410179-08A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 9-4	E410179-09A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 10-4	E410179-10A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 1-4 E410179-01

	E4101/9-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: BA		Batch: 2442142
ND	0.0500	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
ND	0.100	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
	91.7 %	70-130	10/18/24	10/18/24	
mg/kg	mg/kg	Analy	yst: BA		Batch: 2442142
ND	40.0	2	10/18/24	10/18/24	
	97.0 %	70-130	10/18/24	10/18/24	
mg/kg	mg/kg	Analy	yst: AF		Batch: 2442144
ND	25.0	1	10/18/24	10/19/24	
ND	50.0	1	10/18/24	10/19/24	
	101 %	50-200	10/18/24	10/19/24	
mg/kg	mg/kg	Analy	yst: DT		Batch: 2442151
325	20.0	1	10/18/24	10/18/24	
	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 91.7 % mg/kg mg/kg mg/kg ND 40.0 97.0 % mg/kg ND 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0500 2 ND 0.0500 2 ND 0.0500 2 ND 0.100 2 ND 0.0500 2 91.7 % 70-130 mg/kg mg/kg Analy ND 40.0 2 97.0 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 101 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Manalyst: BA ND 0.0500 2 10/18/24 ND 0.0500 2 10/18/24 ND 0.0500 2 10/18/24 ND 0.0500 2 10/18/24 ND 0.100 2 10/18/24 ND 0.0500 2 10/18/24 mg/kg mg/kg Analyst: BA ND 40.0 2 10/18/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/18/24 ND 50.0 1 10/18/24 ND 50.0 1 10/18/24 Mg/kg mg/kg Analyst: AF	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0500 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 ND 0.100 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 Mg/kg mg/kg Analyst: BA ND 40.0 2 10/18/24 10/18/24 Mg/kg mg/kg Analyst: AF ND 25.0 1 10/18/24 10/19/24 ND 50.0 1 10/18/24

Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 2-4 E410179-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2442142
Benzene	ND	0.0500	2	10/18/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/18/24	10/18/24	
Toluene	ND	0.0500	2	10/18/24	10/18/24	
o-Xylene	ND	0.0500	2	10/18/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/18/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		99.3 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2442151
Chloride	340	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 3-6 E410179-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2442142
Benzene	ND	0.0500	2	10/18/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/18/24	10/18/24	
Toluene	ND	0.0500	2	10/18/24	10/18/24	
o-Xylene	ND	0.0500	2	10/18/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/18/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		104 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2442151
Chloride	327	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 4-4 E410179-04

		E410177 04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2442142
Benzene	ND	0.0250	1	10/18/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/18/24	
Coluene	ND	0.0250	1	10/18/24	10/18/24	
-Xylene	ND	0.0250	1	10/18/24	10/18/24	
o,m-Xylene	ND	0.0500	1	10/18/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/18/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		101 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: DT		Batch: 2442151
Chloride	317	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 5-4 E410179-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2442142
Benzene	ND	0.0250	1	10/18/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/18/24	
Toluene	ND	0.0250	1	10/18/24	10/18/24	
o-Xylene	ND	0.0250	1	10/18/24	10/18/24	
o,m-Xylene	ND	0.0500	1	10/18/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		104 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442151
Chloride	78.3	40.0	2	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 6-4 E410179-06

		E-101/7-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Benzene	ND	0.0250	1	10/18/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/18/24	
Toluene	ND	0.0250	1	10/18/24	10/18/24	
o-Xylene	ND	0.0250	1	10/18/24	10/18/24	
o,m-Xylene	ND	0.0500	1	10/18/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		103 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442151
Chloride	215	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 7-8 E410179-07

		E-101/7-0/				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: BA		Batch: 2442142
Benzene	ND	0.0500	2	10/18/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/18/24	10/18/24	
Toluene	ND	0.0500	2	10/18/24	10/18/24	
o-Xylene	ND	0.0500	2	10/18/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/18/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		102 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2442151
Chloride	212	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 8-4 E410179-08

		E4101/9-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Benzene	ND	0.0500	2	10/18/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/18/24	10/18/24	
Toluene	ND	0.0500	2	10/18/24	10/18/24	
-Xylene	ND	0.0500	2	10/18/24	10/18/24	
o,m-Xylene	ND	0.100	2	10/18/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		102 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442151
Chloride	230	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 9-4 E410179-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Benzene	ND	0.0250	1	10/18/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/18/24	
Toluene	ND	0.0250	1	10/18/24	10/18/24	
o-Xylene	ND	0.0250	1	10/18/24	10/18/24	
p,m-Xylene	ND	0.0500	1	10/18/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		109 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442151
Chloride	219	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

SW Comp 10-4 E410179-10

		E4101/9-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2442142
Benzene	ND	0.0250	1	10/18/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/18/24	
Toluene	ND	0.0250	1	10/18/24	10/18/24	
o-Xylene	ND	0.0250	1	10/18/24	10/18/24	
o,m-Xylene	ND	0.0500	1	10/18/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		101 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2442151
Chloride	219	20.0	1	10/18/24	10/18/24	



Matrix Spike Dup (2442142-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

9.01

9.37

9.35

9.41

19.0

28.5

14.5

0.0500

0.0500

0.0500

0.0500

0.100

0.0500

10.0

10.0

10.0

10.0

20.0

30.0

16.0

Benzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

QC Summary Data

	Project Name:	We	est Mount C					Reported:
	Project Number:	20	046-0001					-
	Project Manager:	Na	italie Gladden				1	0/21/2024 5:49:24PM
	Analyst: BA							
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 10	0/18/24 Ar	nalyzed: 10/18/24
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
7.20		8.00		90.1	70-130			
						Prepared: 1	0/18/24 Ar	nalyzed: 10/18/24
4.35	0.0250	5.00		87.0	70-130			
4.51	0.0250	5.00		90.1	70-130			
4.50	0.0250	5.00		90.0	70-130			
4.52	0.0250	5.00		90.4	70-130			
9.18	0.0500	10.0		91.8	70-130			
13.7	0.0250	15.0		91.3	70-130			
7.21		8.00		90.1	70-130			
			Source: E	410179-0	08	Prepared: 10	0/18/24 Ar	nalyzed: 10/18/24
8.82	0.0500	10.0	ND	88.3	54-133			
9.19	0.0500	10.0	ND	91.9	61-133			
9.17	0.0500	10.0	ND	91.8	61-130			
9.20	0.0500	10.0	ND	92.0	63-131			
18.7	0.100	20.0	ND	93.5	63-131			
27.9	0.0500	30.0	ND	93.0	63-131			
	Mg/kg ND ND ND ND ND ND ND ND 7.20 4.35 4.51 4.50 4.52 9.18 13.7 7.21 8.82 9.19 9.17 9.20 18.7	Project Number: Project Manager: Volatile On Reporting Limit mg/kg ND 0.0250	Project Number: 20	Project Number: 20046-0001	Project Number: 20046-0001 Project Manager: Natalie Gladden			

Source: E410179-08

90.1

93.7

93.6

94.1

95.3

94.9

54-133

61-133

61-130

63-131

63-131

63-131

70-130

2.09

1.96

1.94

2.27

1.87

2.00

ND

ND

ND

ND

ND

ND



Prepared: 10/18/24 Analyzed: 10/18/24

20

20

20

20

20

Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	ı			10/2	21/2024 5:49:24PM
	Non	halogenated		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 (2442142-BLK1)							Prepared: 10	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			
LCS (2442142-BS2)							Prepared: 10	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			
Matrix Spike (2442142-MS2)				Source:	E410179-	08	Prepared: 1	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	86.9	40.0	100	ND	86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.9	70-130			
Matrix Spike Dup (2442142-MSD2)				Source:	E410179-	08	Prepared: 1	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	85.6	40.0	100	ND	85.6	70-130	1.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.6		16.0		97.5	70-130			



Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:49:24PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1			I	0/21/2024 5:49:24PI
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442144-BLK1)							Prepared: 1	0/18/24 Ar	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.5		50.0		103	50-200			
LCS (2442144-BS1)							Prepared: 1	0/18/24 Ar	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
urrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike (2442144-MS1)				Source:	E410179-	09	Prepared: 1	0/18/24 Ar	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
urrogate: n-Nonane	54.1		50.0		108	50-200			
Matrix Spike Dup (2442144-MSD1)				Source:	E410179-	09	Prepared: 1	0/18/24 Ar	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	8.66	20	
urrogate: n-Nonane	52.3		50.0		105	50-200			

Chloride

Chloride

Matrix Spike Dup (2442151-MSD1)

QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:		Vest Mount C 0046-0001					Reported:
Artesia NM, 88210		Project Manager	:: N	atalie Gladden				1	0/21/2024 5:49:24PM
		Anions	by EPA 3	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 (2442151-BLK1)							Prepared: 1	0/18/24 Ar	nalyzed: 10/18/24
Chloride	ND	20.0							
LCS (2442151-BS1)							Prepared: 1	0/18/24 Ar	nalyzed: 10/18/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2442151-MS1)				Source:	E410179-	03	Prepared: 1	0/18/24 Ar	nalyzed: 10/18/24

250

250

20.0

20.0

327

327

99.5

106

Source: E410179-03

80-120

80-120

2.94

Prepared: 10/18/24 Analyzed: 10/18/24

20

576

593

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 C	
ı	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 17:49

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 City, State, Zip Project: Wessewawk Client: MA VLL Project Manager Report due by Email. Phone: Additional Instructions: date or line of collection is considered have and may be grounds for legal action kelinguished by (Signature) (field camples), altest to the validity and authenticity of this sample. Lem aware that tampering with or intentigrally mistabelling t 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 reput. 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. بادر Date 101m 10.17.24 6: 16-17-04 Sample ID SW comp 3- 4 SWCOMP 1-4 H-HOMOSMS Swcomp 2-4 5m comp 5-4 Sw complo-4 Sucomp 8 - 4 8-1 anomes 56 comp 4 - 4 2 - 01 drang mg Email City, State, Zip Address: 2774 NW COUNTY RD Phone: NATALIE@ENERGYSTAFFINGLICCOM BRITTSHY@ENERGYSTAFFIBILIC COM 575 393-9048 UNERGY STALFING SERVICES HOBBS NM 88240 Chain of Custody 16 N F W Number DRO/ORO by 8015 1 ab Use Only 1630 m glass, p. poly/plastic, ag. amber glass, v. VOA 2016.000 Samples recovered their style of the service of the packed in ier at an auf temp above 0 but less than 6 'C on subseniert days Received on ice: AVG Temp C Interide 3000 BGDQC NM SGOOK ab Use Only 30 N T3 The report for the analysis of the above Imaging: 10/9/2025 Standard NAM CO Page _____of___ 5 AW: State Remarks EPA Program 24 SDWA $\vec{\mathbf{x}}$ RCRA

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envirotech Inc.

Printed: 10/18/2024 9:04:20AM

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:	10/18/24 (08:00		Work Order ID:	E410179
Phone:	(575) 390-6397	Date Logged In:	10/17/24 1	4.30		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:		17:00 (1 day TAT)		Logged III by.	Caltini iviais
Linuii.	raune woner growthing no cont	Due Date.	10/21/21	17.00 (1 day 1711)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	No	curror. <u>c</u>	<u>Sourier</u>		
	Il samples received within holding time?	,	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi					Comment	ts/Resolution
Sample T	<u>urn Around Time (TAT)</u>				_		
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project ma	anager and tin	ne sampled not
Sample C	<u>Cooler</u>				provided of	on COC per c	lient.
7. Was a s	sample cooler received?		Yes		-	-	
	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	were custody/security seals intact?		NA				
• •	•	: 601200					
	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	e received w/i 15	Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
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							
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected? ollectors name?		Yes				
	reservation		No				
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?	esservea.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	•		110				
	se Sample Matrix the sample have more than one phase, i.e., multipha	50°	N.T				
			No				
•	does the COC specify which phase(s) is to be analy	Y Z C U !	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab	o: NA		
Client In	<u>istruction</u>						
<u>L</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 C

Work Order: E410180

Job Number: 20046-0001

Received: 10/18/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 10/21/24

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: 10/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount C

Workorder: E410180

Date Received: 10/18/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/18/2024 8:00:00AM, under the Project Name: West Mount C.

The analytical test results summarized in this report with the Project Name: West Mount C 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 C	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 17:09

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SP 38-4'	E410180-01A Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SP 39-4'	E410180-02A Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SP 40-4'	E410180-03A Soil	10/16/24	10/18/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:09:29PM

SP 38-4' E410180-01

	E410100-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
ND	0.0500	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
ND	0.100	2	10/18/24	10/18/24	
ND	0.0500	2	10/18/24	10/18/24	
	91.2 %	70-130	10/18/24	10/18/24	
mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
ND	40.0	2	10/18/24	10/18/24	
	95.7 %	70-130	10/18/24	10/18/24	
mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
ND	25.0	1	10/18/24	10/19/24	
ND	50.0	1	10/18/24	10/19/24	
	105 %	50-200	10/18/24	10/19/24	
mg/kg	mg/kg	Analy	st: DT		Batch: 2442151
ND	20.0	1	10/18/24	10/18/24	
	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 MD 40.0500 91.2 % mg/kg mg/kg mg/kg ND 40.0 95.7 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0 105 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0500 2 ND 0.0500 2 ND 0.0500 2 ND 0.100 2 ND 0.0500 2 ND 0.0500 2 91.2 % 70-130 mg/kg mg/kg Analy ND 40.0 2 95.7 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 105 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: BA ND 0.0500 2 10/18/24 ND 0.0500 2 10/18/24 ND 0.0500 2 10/18/24 ND 0.0500 2 10/18/24 ND 0.100 2 10/18/24 ND 0.0500 2 10/18/24 mg/kg mg/kg Analyst: BA ND 40.0 2 10/18/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/18/24 ND 50.0 1 10/18/24 ND 50.0 1 10/18/24 Mg/kg mg/kg Analyst: AF	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0500 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 ND 0.100 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 ND 0.0500 2 10/18/24 10/18/24 Mg/kg mg/kg Analyst: BA ND 40.0 2 10/18/24 10/18/24 Mg/kg mg/kg Analyst: AF ND 25.0 1 10/18/24 10/19/24 ND 50.0 1 10/18/24

Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:09:29PM

SP 39-4'

		E410180-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2442142
Benzene	ND	0.0500	2	10/18/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/18/24	10/18/24	
Toluene	ND	0.0500	2	10/18/24	10/18/24	
o-Xylene	ND	0.0500	2	10/18/24	10/18/24	
o,m-Xylene	ND	0.100	2	10/18/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		107 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2442151
Chloride	127	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:09:29PM

SP 40-4'

		E410180-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2442142
Benzene	ND	0.0500	2	10/18/24	10/18/24	
Ethylbenzene	ND	0.0500	2	10/18/24	10/18/24	
Toluene	ND	0.0500	2	10/18/24	10/18/24	
o-Xylene	ND	0.0500	2	10/18/24	10/18/24	
p,m-Xylene	ND	0.100	2	10/18/24	10/18/24	
Total Xylenes	ND	0.0500	2	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		104 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2442151
Chloride	118	20.0	1	10/18/24	10/18/24	



		QC S	umma	iry Data	l				
Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:	20	Vest Mount C 0046-0001 atalie Gladden					Reported: 10/21/2024 5:09:29PM
Artesia Nivi, 88210		Project Manager:	IN	atane Gradden					10/21/2024 3.09.29FW
		Volatile O	rganics b	oy EPA 8021	1B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442142-BLK1)							Prepared: 1	0/18/24 A	nalyzed: 10/18/24
Benzene	ND	0.0250					1		•
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	7.20		8.00		90.1	70-130			
LCS (2442142-BS1)							Prepared: 1	0/18/24 A	nalyzed: 10/18/24
Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.1	70-130			
Toluene	4.50	0.0250	5.00		90.0	70-130			
o-Xylene	4.52	0.0250	5.00		90.4	70-130			
p,m-Xylene	9.18	0.0500	10.0		91.8	70-130			
Total Xylenes	13.7	0.0250	15.0		91.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			
Matrix Spike (2442142-MS1)				Source: I	E410179-	08	Prepared: 1	0/18/24 A	nalyzed: 10/18/24
Benzene	8.82	0.0500	10.0	ND	88.3	54-133			
Ethylbenzene	9.19	0.0500	10.0	ND	91.9	61-133			
Toluene	9.17	0.0500	10.0	ND	91.8	61-130			
o-Xylene	9.20	0.0500	10.0	ND	92.0	63-131			
p,m-Xylene	18.7	0.100	20.0	ND	93.5	63-131			
Total Xylenes	27.9	0.0500	30.0	ND	93.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.6		16.0		91.0	70-130			
Matrix Spike Dup (2442142-MSD1)				Source: I	E410179-	08	Prepared: 1	0/18/24 A	nalyzed: 10/18/24
Benzene	9.01	0.0500	10.0	ND	90.1	54-133	2.09	20	
Ethylbenzene	9.37	0.0500	10.0	ND	93.7	61-133	1.96	20	
Toluene	9.35	0.0500	10.0	ND	93.6	61-130	1.94	20	
o-Xylene	9.41	0.0500	10.0	ND	94.1	63-131	2.27	20	
n m-Yylene	19.0	0.100	20.0	ND	953	63-131	1.87	20	

20.0

30.0

16.0

0.100

0.0500

ND

ND

95.3

94.9

90.9

63-131

63-131

70-130

1.87

2.00

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

19.0

28.5

14.5

Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:09:29PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	ı			10/2	21/2024 5:09:29PM	
	Non	halogenated	Organics l	by EPA 80	15D - Gl	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 (2442142-BLK1)							Prepared: 10	0/18/24 Anal	yzed: 10/18/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130				
LCS (2442142-BS2)							Prepared: 10	0/18/24 Anal	yzed: 10/18/24	
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130				
Matrix Spike (2442142-MS2)				Source:	E410179-	08	Prepared: 1	0/18/24 Anal	yzed: 10/18/24	
Gasoline Range Organics (C6-C10)	86.9	40.0	100	ND	86.9	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.9	70-130				
Matrix Spike Dup (2442142-MSD2)				Source:	E410179-	08	Prepared: 1	0/18/24 Anal	yzed: 10/18/24	
Gasoline Range Organics (C6-C10)	85.6	40.0	100	ND	85.6	70-130	1.53	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.6		16.0		97.5	70-130				



Mack Energy	Project Name:	West Mount C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:09:29PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			10	0/21/2024 5:09:29P
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442144-BLK1)							Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			
LCS (2442144-BS1)							Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike (2442144-MS1)				Source:	E410179-	09	Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	54.1		50.0		108	50-200			
Matrix Spike Dup (2442144-MSD1)				Source:	E410179-	09	Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	8.66	20	
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Chloride

QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:		Yest Mount C 10046-0001					Reported:
Artesia NM, 88210		Project Manager	: N	atalie Gladder	1				10/21/2024 5:09:29PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	A				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 (2442151-BLK1)							Prepared:	10/18/24 A	.nalyzed: 10/18/24
Chloride	ND	20.0							
LCS (2442151-BS1)							Prepared:	10/18/24 A	nalyzed: 10/18/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2442151-MS1)				Source:	E410179-	03	Prepared:	10/18/24 A	nalyzed: 10/18/24
Chloride	576	20.0	250	327	99.5	80-120			
Matrix Spike Dup (2442151-MSD1)				Source:	E410179-	03	Prepared:	10/18/24 A	nalyzed: 10/18/24

250

20.0

80-120

106

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 C	
	7 W. Compress Road	Project Number:	20046-0001	Reported:
	Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 17:09

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.



Released to Imaging: 10/9/2025

Project Information Phone Project woodmann Email. City, State, Zip Project Manager Report due by Address: hent Macu Sampled Additional Instructions: dare on time of collection is considered fraud and may be grounds for legal action , field sampler), attest to the validity and authenticity of this sample. Lam aware that tampering with or intention Relinguished by (Signature) Note Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardour camples will be returned to client or disposed of at the client expense. samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paul for on the report. HWEST 100/101 Date δ 10:17:24 Sample 1D 1,-01 domosods h-8 drupod Email Phone: 575-393-9048 City, State, Zip Altention Address NATALLEGENERGYSTAFFINGLICECOM BRITTENEY@ENERGYSCAFFINGLIC.COM 2724 NW COUNTY RD ENERGY STATEING SERVICES HOBBS NM 88240 Chain of Custody พนกปอ CRUI ah DRO/ORO by 8015 GRO/DRC by \$015 STEX by 5021 1 ab Use Only 40C by 4160 Social Park Analysis and Method lob Number Metals 5010 poly/plastic, ag amber glass, v backed in it is a sign and tome about 0 but less then 6 'C on subsequent days Generales recommend there of preservation must be recover on the day they are sameless of Received on ice: AVG Temp °C Unioride 300.0 5 BGOUC NM SGOOK յի Use Only 30 Standard VOA The report for the analysis of the above XX CO Page ____of__ <u>_</u> CWA SDWA CWA Remarks State 2 Z RCRA

Page 13 of 16

Reinfaught by Esphalure Date Reinfaught by Esphalure Date Reinfaught by Esphalure Date Reinfaught by Esphalure Date	of this san	Manue service 1D Somple 1D Speans	Project Information Client: Maril Company Project westmany Project Manager Address:
Reinfaulty by Esphalure Date Time (D-17-14 CS) South (Sephalure) (0-18-24 8:00 AVG Temp ^o C T	that tampering with our internationally mislabelling the same Campice by A NO CAMPICE TO THE COUNTY OF THE COUNTY	Email NA INTERPRETATION NA 1979 1-4 Sp 38-4 1-4 Sp 38-4 1-4 Sp 38-4 1-5 Sp 38-4 1-6 Sp 38-9 1-7 Sp 38-9	, *\dag{\psi}
AVG Terrip ^o C Type g plass, p polyplastic ag amber glass, v VOA Type g plass, p polyplastic ag amber glass, v VOA The returned to cheat or disposed of at the client expense. The report for the analysis of the allower to the annual paid for on the report.	The forestion. Semples requiring their at presprection must be received day they are some of consultant them. Semples requiring their at an experience of but less then 6 fr on subsequent days. The first state of the first state of the first state of the first of	STERRY 902: VOC DY \$259 Metalls 9010 AGOUL NAM SGOUL NAM SGOU	Page of l

Page 319 of 379

Printed: 10/18/2024 9:39:12AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Mack Energy	Date Received:	10/18/24 08:0	00	Work Order ID: E410180
Phone:	(575) 390-6397	Date Logged In:	10/17/24 14:4		Logged In By: Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:		00 (1 day TAT)	Logged in By. Caldin Mais
Chain of	f Custody (COC)				
	the sample ID match the COC?		Yes		
	the number of samples per sampling site location mate	ch the COC	Yes		
	samples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	No		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes		Comments/Resolution
Sample '	Turn Around Time (TAT)				
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and time sampled not
Sample	<u>Cooler</u>				provided on COC per client. Sample names
7. Was a	sample cooler received?		Yes		on containers did not match names on
8. If yes,	was cooler received in good condition?		Yes		COC. Client asked to change sample
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes		• •
	custody/security seals present?		No		names on COC to match conatiners.
11. If yes	s, were custody/security seals intact?		NA		
12. Was ti	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes		
13. If no	visible ice, record the temperature.	temperature: 4°C	<u> </u>		
Sample	<u>Container</u>				
14. Are a	aqueous VOC samples present?		No		
15. Are \	VOC samples collected in VOA Vials?		NA		
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes		
19. Is the	appropriate volume/weight or number of sample contain	ers collected?	Yes		
Field La	<u>ibel</u>				
	e field sample labels filled out with the minimum info	rmation:			
	Sample ID?		Yes		
	Date/Time Collected? Collectors name?		Yes	•	
	Preservation		No		
	the COC or field labels indicate the samples were pro	eserved?	No		
	sample(s) correctly preserved?	osci ved.	NA		
	o filteration required and/or requested for dissolved m	etals?	No		
	ase Sample Matrix		1.0		
	the sample have more than one phase, i.e., multiphas	a?	No		
	s, does the COC specify which phase(s) is to be analy		No		
		zeu:	NA		
	ract Laboratory				
	samples required to get sent to a subcontract laborator	-	No		
29. Was	a subcontract laboratory specified by the client and if	so who?	NA S	ubcontract Lab	o: NA
Client I	<u>Instruction</u>				

Date

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envirotech Inc.

Printed: 10/18/2024 9:39:12AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

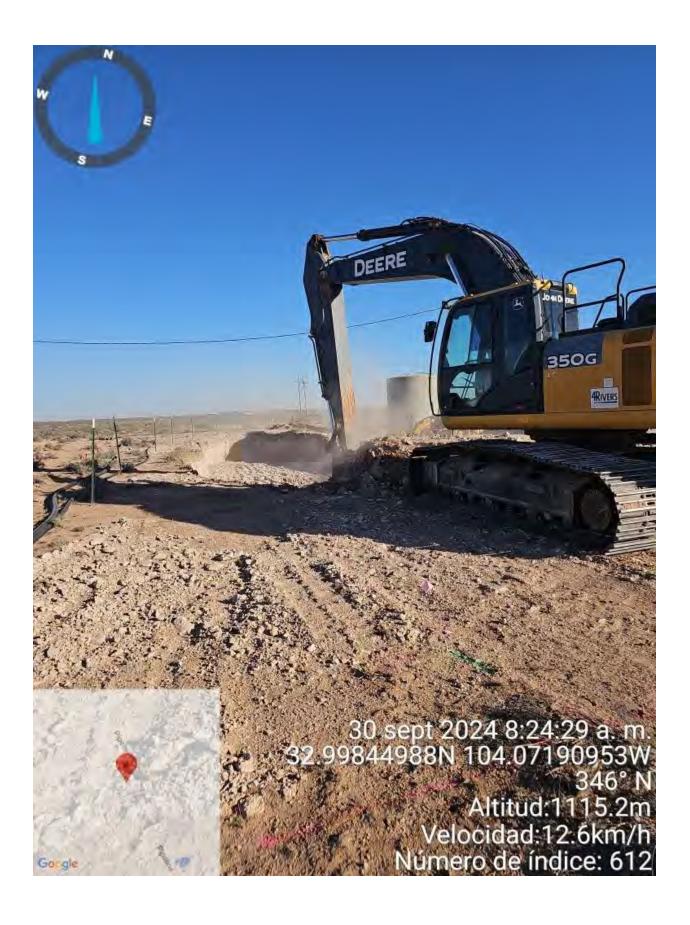
Client:	Mack Energy	Date Received:	10/18/24 0	08:00	Work Order ID: E410180
Phone:	(575) 390-6397	Date Logged In:	10/17/24 1	4:43	Logged In By: Caitlin Mars
Email:		Due Date:	10/21/24 1	17:00 (1 day TAT)	20 7
Chain of	Custody (COC)				
1. Does t	he sample ID match the COC?		Yes		
	he number of samples per sampling site location mate	h the COC	Yes		
	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
	e COC complete, i.e., signatures, dates/times, request	ed analyses?	No		<u></u>
5. Were a	all samples received within holding time?	•	Yes		
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion				Comments/Resolution
	<u> Furn Around Time (TAT)</u>				Draigat manager and time compled not
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and time sampled not
Sample (provided on COC per client. Sample names
	sample cooler received?		Yes		on containers did not match names on
•	was cooler received in good condition?		Yes		COC. Client asked to change sample
9. Was th	e sample(s) received intact, i.e., not broken?		Yes		names on COC to match conatiners.
10. Were	custody/security seals present?		No		mando on coc to materi continions.
11. If yes	s, were custody/security seals intact?		NA		
	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 visible ice, record the temperature. Actual sample t	received w/i 15	Yes		
		emperature. 4	<u>c</u>		
	Container queous VOC samples present?		No		
	/OC samples collected in VOA Vials?		NA NA		
	thead space less than 6-8 mm (pea sized or less)?		NA NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample contained	ora gollootod?	Yes Yes		
		ers conected:	165		
Field La	field sample labels filled out with the minimum infor	mation:			
	sample ID?	mation.	Yes		
	Date/Time Collected?		Yes		
C	Collectors name?		No		
Sample 1	<u>Preservation</u>				
21. Does	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	e?	No		
27. If yes	s, does the COC specify which phase(s) is to be analyze	zed?	NA		
Subconti	ract Laboratory				
	amples required to get sent to a subcontract laboratory	<i>1</i> 9	No		
	a subcontract laboratory specified by the client and if		NA	Subcontract Lab	»· NΔ
	• • •	30 WHO.	1121	Subcontract Lab	, NA
Client I	<u>nstruction</u>				

Date

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

MACK ENERGY: WEST MOUNT SPILL C REMEDIATION AND FINAL PHOTOS

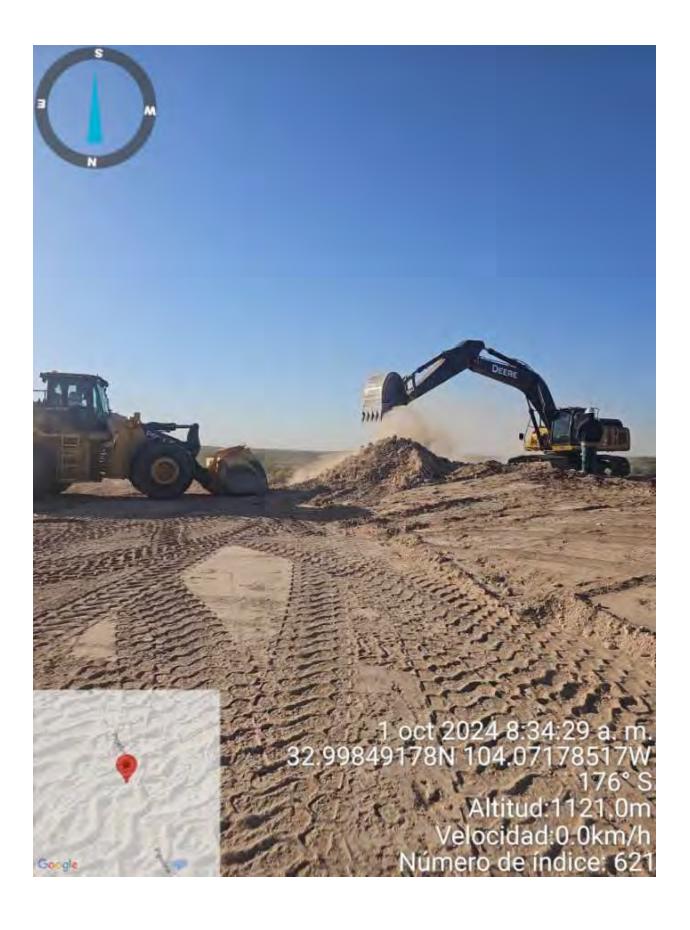




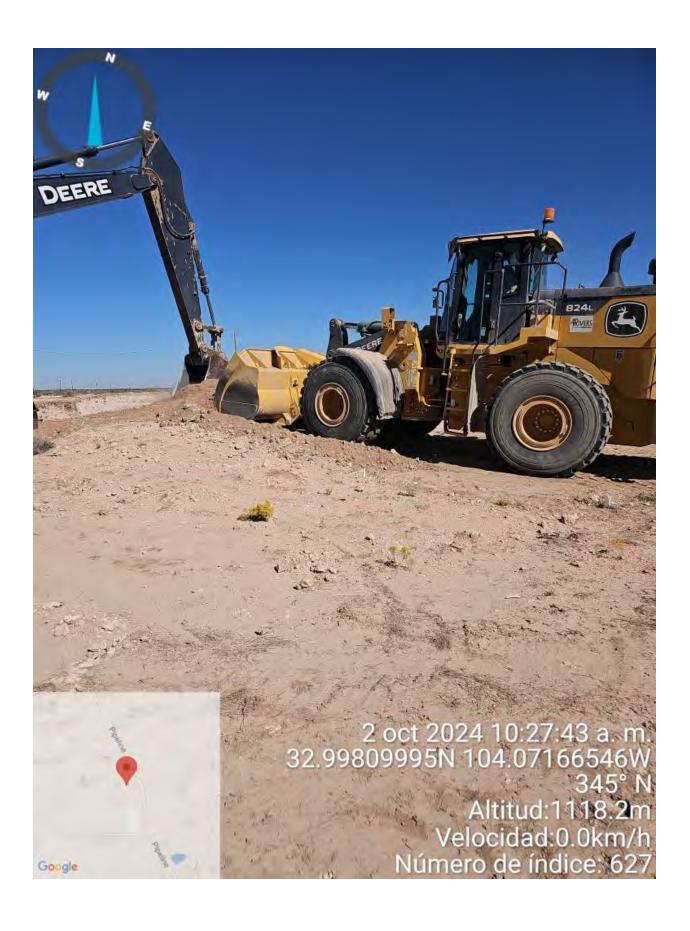


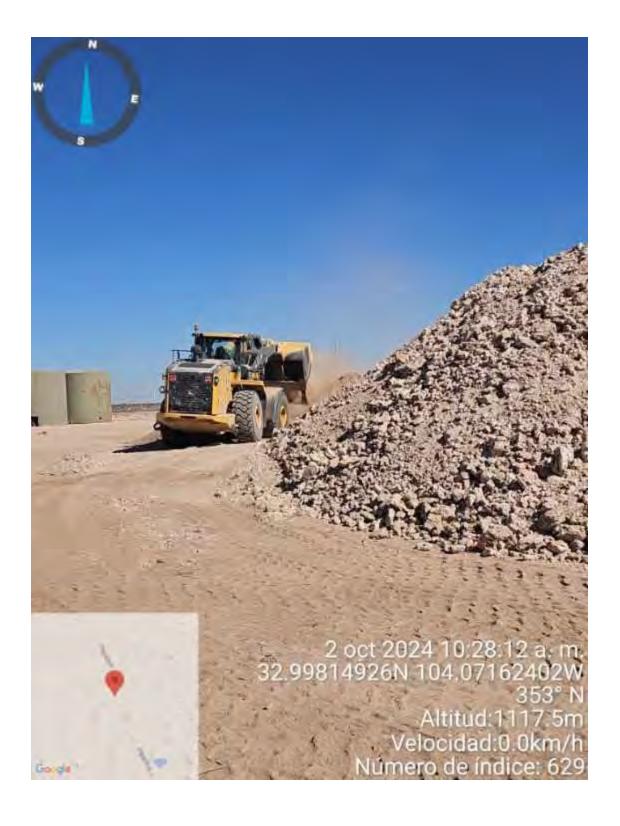














































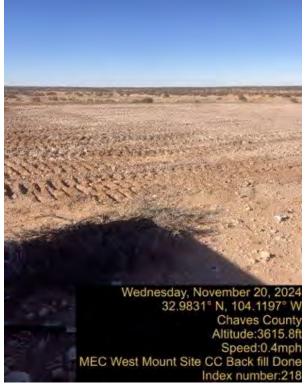


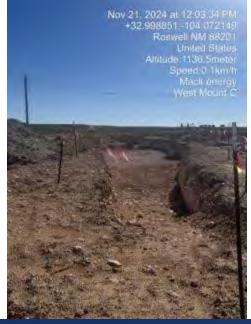














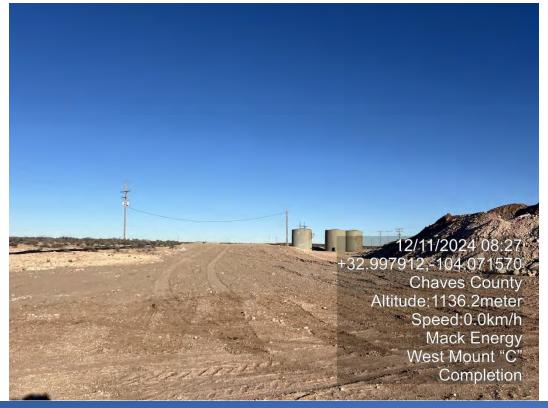


















MACK ENERGY CORPORATION WEST MOUNT SPILL C RECLAMATION EXECUTIVE SUMMARY

API NO. 30-005-64381
UNIT LETTER F, SECTION 27, TOWNSHIP 15S, RANGE 28E
CHAVES COUNTY, NEW MEXICO

Reclamation Executive Summary

Subject: Final Reclamation Summary – West Mount Spill C (Incident No. NAPP2327834535)

On January 13, 2025, ESS initiated and completed reclamation activities at the West Mount Spill C site following the finalization of remediation efforts for the release that occurred on September 20, 2023 (Incident Number: NAPP2327834535).

A total of 2,040 cubic yards of caliche were pushed up and hauled from Gandy's disposal and 240 cubic yards of topsoil were loaded and hauled from Mack's Bogel's Pit. The topsoil was evenly spread across the entire 4,312 square-foot impacted area. The site was then ripped, contoured, and sloped to match the natural grade. Reseeding was conducted using the Sandy Loam Seed Mixture in accordance with State Land Office (SLO) Rules and Regulations.

A five-point composite was taken from the center of the excavation/backfill area located at 32.998410 -104.071879. Please find the reclamation composite map and confirmed lab analysis attached herein.

Final reclamation photos have been included with the Closure Report, which has been uploaded and submitted through the NMOCD Portal. The seed tag associated with the seeding event is also attached for your records.

Should you have any questions or require additional information regarding the completed reclamation activities at the West Mount Spill C site for Mack Energy, please feel free to contact me at (575) 390-6397 or (575) 393-9048, or via email at natalie@energystaffingllc.com.

Sincerely,

Natalie Gladden

COO and Director of Environmental and Regulatory Services

stali Gladder

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com





Mack Energy NMSLO Sandy Loam- 1.8 Ac Broadcasted Lot #: 68135 28.29

Item	% Pure Mix	Origin	Purity	Gerfft	Dormant	Total Germ:	Test Date
Little Bluestern, Aldous	9.72%	Kansas	61,69%	59.00%	31.00%	90.00%	11/2024
	9.30%	Texas	86.14%	21.00%	73.00%	94.00%	9/2024
Galleta, Viva 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		New Me	xic91.52%	0,00%	0.00%	99.00%	11/2024
Winter Fat, Variety Not Stated	6,66%		xic48.97%	90,00%	2.00%	92.00%	8/2024
Palmer Pensternon, Variety Not State		Utah	98.86%	15,00%	79.00%	94.00%	7 <i>1</i> 2024
Sand Dropseed, Variety Not Stated	3.61%	Oklahor	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%	Washin	gtor98.42%	97.00%	0.00%	97.00%	6/2024
Blackeyed Susan, Variety Not Stated	3.53%	lowa	99.38%	99,00%	0.00%	99.00%	6/2024
Seed Total	65.39%		40				
			ph .				
Inert Matter:	34.54%						
Other Crop:	0.08%					n-1.8 AC Broa	
Weed Seed:	0.01%				September 1	Bag into 3) 0	

curtis Seed uso Weed: None

45000 18 (575) 762-4759





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 C

Work Order: E507175

Job Number: 20046-0001

Received: 7/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/18/25

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: 7/18/25

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill C

Workorder: E507175

Date Received: 7/17/2025 7:00:34AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/17/2025 7:00:34AM, under the Project Name: West Mount Spill C.

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

Southern New Mexico Area

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Cell: 505-320-4759

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Michelle Gonzales

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 Spill C	D
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/18/25 14:06

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BACKFILL COMP 1- SURF	E507175-01A Soil	07/15/25	07/17/25	Glass Jar, 2 oz.



Sample Data

Mack Energy	Project Name:	West Mount Spill C	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/18/2025 2:06:57PM

BACKFILL COMP 1- SURF

E507175-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: BA		Batch: 2529119
Benzene	ND	0.0250	1	07/17/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/17/25	07/17/25	
Toluene	ND	0.0250	1	07/17/25	07/17/25	
o-Xylene	ND	0.0250	1	07/17/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/17/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/17/25	07/17/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/17/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2529119
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/25	07/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	07/17/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529134
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		95.0 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2529117
Chloride	62.3	20.0	1	07/17/25	07/17/25	



QC Summary Data

		QC SI	umma	iry Dat	ય						
Mack Energy 7 W. Compress Road	Project Name: Project Number:		est Mount Sp 0046-0001	ill C				Reported:			
Artesia NM, 88210		Project Manager:	Na	atalie Gladder	1		7/18/2025 2:06:57PM				
		Volatile O	rganics b	y EPA 802	21B				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 (2529119-BLK1)							Prepared: 0	7/17/25 A	Analyzed: 07/17/25		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
p-Xylene	ND	0.0250									
o,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130					
LCS (2529119-BS1)							Prepared: 0	7/17/25 A	Analyzed: 07/17/25		
Benzene	5.17	0.0250	5.00		103	70-130					
Ethylbenzene	5.14	0.0250	5.00		103	70-130					
Coluene	5.19	0.0250	5.00		104	70-130					
-Xylene	5.04	0.0250	5.00		101	70-130					
,m-Xylene	10.3	0.0500	10.0		103	70-130					
Total Xylenes	15.4	0.0250	15.0		102	70-130					
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130					
Matrix Spike (2529119-MS1)				Source:	E507176-0	01	Prepared: 0	7/17/25 A	Analyzed: 07/17/25		
Benzene	5.04	0.0250	5.00	ND	101	70-130					
Ethylbenzene	5.10	0.0250	5.00	ND	102	70-130					
Toluene	5.12	0.0250	5.00	ND	102	70-130					
o-Xylene	5.03	0.0250	5.00	ND	101	70-130					
o,m-Xylene	10.3	0.0500	10.0	ND	103	70-130					
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130					
Surrogate: 4-Bromochlorobenzene-PID	8.27		8.00		103	70-130					
Matrix Spike Dup (2529119-MSD1)				Source:	E507176-0	01	Prepared: 0	7/17/25 A	/17/25 Analyzed: 07/17/25		
Benzene	4.92	0.0250	5.00	ND	98.4	70-130	2.42	27			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	70-130	2.12	26			
Toluene	5.00	0.0250	5.00	ND	100	70-130	2.31	20			
o-Xylene	4.93	0.0250	5.00	ND	98.7	70-130	1.95	25			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	2.00	23			
Total Vilance	15.0	0.0250	15.0	ND	100	70 120	1.09	26			



15.0

8.36

0.0250

15.0

8.00

ND

100

70-130

70-130

1.98

26

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/18/2025 2:06:57PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	ı			7/1	8/2025 2:06:57PM
	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 (2529119-BLK1)							Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			
LCS (2529119-BS2)							Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			
Matrix Spike (2529119-MS2)				Source:	E507176-	01	Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			
Matrix Spike Dup (2529119-MSD2)				Source:	E507176-	01	Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	ND	85.3	70-130	1.40	20	

8.00

7.44

93.0

70-130



QC Summary Data

Mack Energy	Project Name:	West Mount Spill C	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/18/2025 2:06:57PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1				7/18/2025 2:06:57PN
	Nonha	logenated Or	ganics by l	EPA 8015I	D - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2529134-BLK1)							Prepared: 0	7/17/25 Ar	nalyzed: 07/17/25
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.8		50.0		95.7	61-141			
LCS (2529134-BS1)							Prepared: 0	7/17/25 Ar	nalyzed: 07/17/25
Diesel Range Organics (C10-C28)	240	25.0	250		95.9	66-144			
urrogate: n-Nonane	47.9		50.0		95.7	61-141			
Matrix Spike (2529134-MS1)				Source:	E507178-0	07	Prepared: 0	7/17/25 Ar	nalyzed: 07/17/25
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	56-156			
urrogate: n-Nonane	47.9		50.0		95.8	61-141			
Matrix Spike Dup (2529134-MSD1)				Source:	E507178-0	07	Prepared: 0	7/17/25 Ar	nalyzed: 07/17/25
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	56-156	1.08	20	
urrogate: n-Nonane	47.7		50.0		95.5	61-141			



QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number:	-						Reported:
Artesia NM, 88210		Project Manager:		atalie Gladder	1				7/18/2025 2:06:57PM
		Anions	by EPA 3	00.0/9056	4				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 (2529117-BLK1)							Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	ND	20.0							
LCS (2529117-BS1)							Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2529117-MS1)				Source:	E507178-0)2	Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	786	20.0	250	555	92.6	80-120			
Matrix Spike Dup (2529117-MSD1)				Source: E507178-02 Prepared					nalyzed: 07/17/25
Chloride	795	20.0	250	555	96.2	80-120	1.12	20	

QC Summary Report Comment:

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



Definitions and Notes

ſ	Mack Energy	Project Name:	West Mount Spill C	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/18/25 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.



Project Information

Chain of Custody

	,	
Page) of	

Received by OCD: 8/27/2025 3:05:35 PM

Client:	MACK	ENC	201			Bill To				Li	ab U	se Or	nly		T		TA	ΛT	EPA P	rogram
Project:	WEST	40401	SPILL	C	Att	ention: ENERGY STAFFING S	ERVICES	Lab	WO#	†	_		Num		1D	2D	3D	Standard	CWA	SDWA
	Nanager:				Ad	dress: 2724 NW COUNTY RD)	E5	50	175		_	-	1000		$\perp_{\mathcal{V}}$				
Address:						y, State, Zip HOBBS, NM 883	240					Anal	ysis ar	nd Metho	d					RCRA
City, Stat	te, Zip					one: 575-393-9048														
Phone:					Em	ail: NATALIE@ENERGYSTAFFIN		015	015									NINAL CO.	State	Tv
Email:						PRITTNEY@ENERGYSTAPH	NGLLC.COM	by 8	by 8	021	09	10	300.0		Σ	X		NM CO	UT AZ	IX
Report d	T							ORO ORO	DRO	by 8(y 82	s 60	de 3							
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		вевос	верос			Remarks	
730	1/15/15	5	1	Barke	SULC	OMP1-542F	9								X			4.0		
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Addition	nal Instruc	tions:									-/					***************************************				
I (field sam	unler) attest t	o the validit	v and auther	nticity of this sample	Lam aware	that tampering with or intentionally misl	lahelling the sampl	eJocat	ion.			Samp	les requ	ring thermal	preserv	ation m	ust be rea	ceived on ice the day t	hey are samp	ed or received
date or tim	e of collection	is consider	ed fraud and	may be grounds for	legal action	that tampering with or intentionally misl	RIVER	2	50.51 () 5 1			packe	d in ice	at an avg tem	p above	0 but I	ess than (6 °C on subsequent da	/5.	
	by: (Sign		Dat	2/ _/ Tim	2	Received by: (Signature)	Date		Time	:		1			1	Lab L	se On	ily		
171	770			1/10/25		Larricott nu Pan	Ben Tolls	20	5			Rec	eive	on ice:	6	0/1	V	900 .		
Relinquish	ned by: (Sign	ature)	Dat	e I Tim	-/~	Received by: (Signature)	Date	7-16-	- Sme	, ,	,	7			_					
104	YWO/TI	un Fa	unker-	1.1628	550	Marisaa Ganzale	7-16	50	+/	22	0	T1			T2			<u>T3</u>		
Relinquisl	ned by: (Sign	ature)	Dat		9	Received by: (Signature)	Date		Time											
Mari	asa di	enzel	es 7	1-16-25 1	900	14.11	7.16.7	25	1	900		AV	G Ten	np °C	-					
Sample Ma	trix: S - Soil, S	d - Solid, Sg	- Sludge, A -	Aqueous, O - Other		0.01.	Containe	г Тур	e:g-	glass	, p - p	ooly/p	lastic	, ag - amb	er gla	ass, v	- VOA			
Note: San	nples are dis	carded 30	days after r	esults are reporte	d unless ot	her arrangements are made. Hazaro	dous samples wil	l be re	eturne	d to c	lient o	or disp	osed c	f at the cli	ent ex	pense	. The	report for the ana	lysis of the	above
samples i	s applicable	only to the	se samples	received by the la	boratory w	vith this COC. The liability of the labor	ratory is limited t	o the	amou	nt pai	d for	on the	repor							
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J. J.	Ч		11.	14.27	1400	June	[1][-	9 /	N	/		1	e		V		IO'	E	CI
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Printed: 7/17/2025 2:09:57PM

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.

Mack Energy Date Received: 07/17/25 07:00 E507175 Client: Work Order ID: Phone: (575) 390-6397 Date Logged In: 07/16/25 16:07 Logged In By: Caitlin Mars Email: Natalie@energystaffingllc.com Due Date: 07/18/25 17:00 (1 day TAT) Chain of Custody (COC) 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Courier 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 $s\bar{hould}$ 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 not provided on COC. 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? Yes 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? Yes Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? No Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA 24. Is lab filtration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA **Client Instruction**

Date





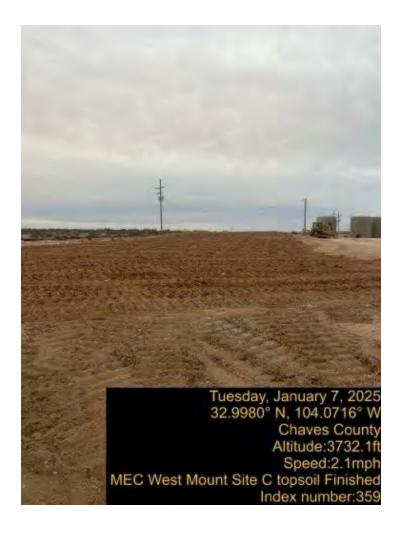
Mack Energy NMSLO Sandy Loam- 1.8 Ac Broadcasted Lot #: 68135

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

450046647Printe, Clovis, NM 88101ed bags @ 28 2575 762-475



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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 499961

QUESTIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327834535
Incident Name	NAPP2327834535 WEST MOUNT SPILL C @ 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 C
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 for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 31 BBL Recovered: 0 BBL Lost: 31 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 499961

QUESTIONS ((continued)
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QUESTI	ions (continued)
Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960 Artesia, NM 882110960	Action Number:
Artesia, NW 602110900	499961
	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.	e. gas only) are to be submitted on the C-129 form.
L	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted 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 releathe 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 ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 08/27/2025

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 499961

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	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 and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date	
Requesting a remediation plan approval with this submission	Yes	
1 11	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 extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	19600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	247.5	
GRO+DRO (EPA SW-846 Method 8015M)	247.5	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence 09/23/2024		
On what date will (or did) the final sampling or liner inspection occur	10/11/2024	
On what date will (or was) the remediation complete(d)	01/13/2025	
What is the estimated surface area (in square feet) that will be reclaimed	4312	
What is the estimated volume (in cubic yards) that will be reclaimed	1760	
What is the estimated surface area (in square feet) that will be remediated	4312	
What is the estimated volume (in cubic yards) that will be remediated 1760		
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 499961

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

e 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	
fEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL	
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: 08/27/2025

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.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 499961

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	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

Phone: (505) 629-6116

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

QUESTIONS, Page 6

Action 499961

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	390458
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/09/2024
What was the (estimated) number of samples that were to be gathered	32
What was the sampling surface area in square feet	4312

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	4312	
What was the total volume (cubic yards) remediated	1760	
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	4312	
What was the total volume (in cubic yards) reclaimed	1760	
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: 08/27/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 499961

QUESTIONS (continued)

Operator: MACK ENERGY CORP	OGRID: 13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	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	4312
What was the total volume of replacement material (in cubic yards) for this site	2280
	of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 cover 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)	01/13/2025
Summarize any additional reclamation activities not included by answers (above)	SITE WAS SEEDED WITH SLO SANDY LOAM SEED AS ORDERED BY SLO.
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form at 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 release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	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 it 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 ing 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@energystaffinglic.com

Date: 08/27/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 8

Action 499961

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	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.		

Phone: (505) 629-6116

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

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

CONDITIONS

Action 499961

CONDITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	499961
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	y Condition	Condition Date
rhamlet	We have received your reclamation report for Incident #nAPP2327834535 WEST MOUNT SPILL C, thank you. The reclamation report is approved.	10/9/2025