



**WEST MOUNT SPILL K
CLOSURE REQUEST**

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

**DATE OF RELEASE: 09/21/2023
INCIDENT NO. nAPP2329852272**

**04/25/2025
Prepared by:**



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June 05, 2025

New Mexico Energy, Mineral & Natural Resources
NMOCD District I
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Mack Energy Corporation
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Subject: Closure Request for Mack Energy Corporation – West Mount Spill K

API No. 30-005-64381
Incident No. NAPP2329852272
Unit Letter G, Section 30, Township 15S, Range 29E
Chaves County, New Mexico

To Whom It May Concern,

Mack Energy retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the West Mount Spill K (hereafter referred to as “Spill K”) associated with a 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 District I Office of the New Mexico Oil Conservation Division (NMOCD) via email, in accordance with applicable reporting requirements (notification attached).

On behalf of Mack Energy, ESS subsequently submitted the initial C-141 Release Notification Form to the NMOCD on October 25, 2023, along with the spill calculator used to determine the estimated release volume (attached). The NMOCD acknowledged and accepted the C-141 submission on October 25, 2023, at 2:34 p.m. The incident was assigned identification number NAPP2329852272 (notification correspondence attached).

This report provides a comprehensive summary of the environmental site assessment, delineation, and remedial actions conducted in response to the release. The investigative and corrective measures described herein were performed to evaluate the extent of impact and to ensure compliance with the spill response and remediation requirements established under 19.15.29 NMAC. Analytical results and field observations demonstrate that the release has been adequately assessed and remediated, and that the applicable closure criteria outlined in 19.15.29.12 NMAC have been satisfied.

Based on the information presented in this report, ESS respectfully requests that the NMOCD review the documented assessment and remediation activities and approve regulatory closure of incident NAPP2329852272 associated with West Mount Spill K.

Incident Description and Site Characterization

On September 20, 2023, the water transfer company Well Spring identified a failure in a lay-flat transfer line that resulted in the release of produced water into a pasture area associated with West Mount Spill K (hereafter referred to as "Spill K").

Upon discovery of the release, Energy Staffing Services, LLC (ESS) was notified and mobilized to the site to conduct an environmental site assessment. Based on field measurements of the impacted area and volume calculations, it was determined that approximately 137.04 barrels of produced water were released. No free liquids were recoverable at the time of discovery. Initial site documentation, including photographic records and measurements of the impacted area, was completed during the initial response. Photographs documenting the site conditions at the time of discovery are included in the attachments to this report.

The Spill K release occurred on State Land at geographic coordinates 32.987071 latitude and -104.07267 longitude, approximately 20.7 miles southeast of Hagerman, New Mexico. The legal description of the release location is Unit Letter G, Section 30, Township 15 South, Range 29 East, located in Chaves County, New Mexico. A site location schematic is provided in the attachments.

The Spill K release area consists primarily of oilfield production infrastructure, including production flowlines and associated production facilities located near well pads. The release occurred within an adjacent pasture area. The site elevation is approximately 3,720 feet above main sea level. Vegetation within the surrounding rangeland ecosystem is characteristic of southeastern New Mexico and is historically dominated by black grama, bush muhly, dropseed, creosote bush, and other perennial grasses and forbs. Rangeland and vegetation classification information is included in the attachments.

According to the United States Department of Agriculture Natural Resources Conservation Service (NRCS) soil survey data, soils in the Spill K area consist of 100 percent Tencee–Sotim association soils. The NRCS soil map for the project area is included in the report attachments. Review of the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer indicates that the Spill K site is located within an area identified as having a 0.2 percent annual chance flood hazard, with areas subject to 1 percent annual chance flooding with an average depth of approximately one foot or associated with drainage areas of less than one square mile. The FEMA flood hazard map is included in the attachments.

A review of available geologic data from the United States Department of the Interior, Bureau of Land Management indicates that the potential for karst geology in the vicinity of the Spill K

release is classified as “low potential.” The corresponding karst potential map is provided in the attachments.

A review of hydrologic features indicates that no surface water bodies are located in the immediate vicinity of the Spill K release area. The site is not located within one-half mile of a continuously flowing watercourse, lake, or lakebed. Additionally, no other critical environmental or community features were identified in proximity to the release area. A water course and hydrologic features map is included in the attachments.

A groundwater well search was conducted using records from the New Mexico Office of the State Engineer (NMOSE). The nearest registered water well to the Spill K release site is RA 12428, drilled in 2016, with a total depth of 170 feet and a static water level of 125 feet, located approximately 6,384 yards from the site. The second nearest well is RA 12429 POD1, drilled in 2016, with a total depth of 62 feet and a water level of 27 feet, located approximately 7,692 yards from the site.

Additional nearby wells include the following:

- RA 09248, drilled in 1996, total depth 150 feet, water level 45 feet, located 8,341 yards from the site
- RA 10280, drilled in 2002, total depth 70 feet, water level 40 feet, located 8,470 yards from the site
- RA 09059, drilled in 1995, total depth 110 feet, water level 35 feet, located 8,912 yards from the site
- L 14514 POD1, drilled in 2018, total depth 208 feet, water level 77 feet, located 8,925 yards from the site

An extended groundwater well search was conducted utilizing the OSE POD Location Mapping System, which confirmed that no additional registered water wells are located within a one-half mile radius of the Spill K release site. Supporting groundwater search documentation, including NMOSE well data, OSE POD mapping results, and groundwater location maps, are included in the attachments to this report.

Closure Criteria Determination

The applicable soil closure criteria for releases are presented in the chart below. Based on the available site characterization information, no groundwater data were identified within a one-half mile radius of the Spill K release location. Additionally, the release occurred on State Land and the site has been classified as having low karst potential.

Due to the absence of verified groundwater depth data within the immediate vicinity of the release location, the site was conservatively evaluated using the less than 50 feet to groundwater closure criteria. This determination was applied solely due to the lack of recent or documented groundwater depth measurements near the site. As such, the more protective closure standards associated with the <50 feet to groundwater category were utilized for

evaluating soil analytical results and determining compliance with applicable closure requirements.

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

Soil Remediation Action Levels

Energy Staffing Services, LLC (ESS) has collected and evaluated sufficient environmental data to confirm that soils at the Spill K release location were impacted as a result of the produced water release. The investigative and remedial actions performed at the site were conducted in accordance with the remediation and abatement goals and objectives established in the NMOCD Closure Criteria for Soils Impacted by a Release (August 14, 2018).

This guided document establishes the applicable soil screening and remediation action levels used to evaluate releases and provides the regulatory framework for determining when impacted sites meet closure requirements. The criteria were used by ESS to guide Mack Energy's response activities, including initial site response, environmental site assessment, soil delineation, and soil sampling procedures.

The information presented in this report summarizes the site investigation activities and the delineation process performed to define the lateral and vertical extent of soil impacts associated with the Spill K release. These activities were conducted to ensure that the extent of contamination was adequately characterized and that remediation efforts were sufficient to meet the applicable soil closure criteria.

Soil Sampling Procedures

Soil sampling at the Spill K release site was conducted in accordance with NMOCD-approved industry standards to ensure representativeness, integrity, and compliance with applicable regulatory procedures. The following accepted soil sampling and laboratory analytical procedures were implemented:

- Samples were collected in clean, airtight glass jars provided by the analytical laboratory to maintain sample integrity.
- Each jar was clearly labeled with site identification, sample location, and relevant sample information.
- Samples were stored in a cool environment and transported on ice to prevent degradation prior to analysis.

- Samples were promptly shipped to the laboratory under strict chain-of-custody procedures to ensure traceability and regulatory compliance.

Envirotech Analytical Laboratory performed laboratory analysis of soil samples. Both bottom hole (vertical) and sidewall (horizontal) samples were submitted for the following analyses:

Volatile Organics – EPA Method 8021B:

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

Nonhalogenated Organics – EPA Method 8015D – GRO:

- Gasoline Range Organics (C6–C10)

Nonhalogenated Organics – EPA Method 8015D – DRO/ORO:

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

Anions – EPA Methods 300.0 / 9056A:

- Chloride

All sampling and analytical procedures were conducted in compliance with NMOCD closure requirements, ensuring that soil impacts were accurately characterized and that the resulting data are suitable for evaluating site closure under the applicable soil remediation action levels.

Soil Delineation and Sampling Activities

On December 2, 2023, ESS personnel arrived at the Spill K release site to conduct soil delineation activities. Delineation sample points were established, and each point was accurately recorded using GPS coordinates. Surface samples were then collected at each designated point. All samples were field-tested, logged, and submitted to Envirotech Analytical Laboratory for confirmation.

A total of 23 vertical (bottom hole) sample points and 24 horizontal (sidewall) sample points were established across the impacted area to define the lateral and vertical extent of soil contamination. Soil samples were collected using a backhoe at 1-foot and 2-foot intervals for vertical profiling. Bottom hole samples from each location were subsequently submitted to the laboratory for confirmation of analytical results.

The delineation sample data, including laboratory results, are summarized below, with the analytical laboratory indicated in yellow. Attachments to this report include the complete sample dataset, delineation sample map, and laboratory analytical results, providing a comprehensive record of the site assessment and confirmation of soil impacts.

SP ID	Depth	Titr	PID	L- BTEX	L- GRO	L- DRO	L- ORO	L-TPH	L-CHL	Dates
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SP1	SURF	160	L	ND	ND	ND	ND	ND	ND	12/2/2023
	2	>4000								
	4	>4000								
	6	>4000								
	8	>4000								
	10	1360								
	12	400								
	14	240	L	ND	ND	ND	ND	ND	90.3	7/25/2024
SP2	SURF	>4000	L	ND	ND	26.8	ND	26.8	28400	12/2/2023
	2	1360								
	4	2000								
	6	1440								
	8	1040								
	10	720								
	12	320								
	14	240	L	ND	ND	ND	ND	ND	198	7/25/2024
SP3	SURF	>4000	H	ND	ND	44.2	87.3	131.5	9180	12/2/2023
	2	560								
	4	480	H	ND	ND	769	1470	2239	442	7/25/2024
	6	320								
	8	80	L	ND	ND	ND	ND	ND	ND	7/31/2024
SP4	SURF	>4000	L	ND	ND	ND	ND	ND	5380	12/2/2023
	2	560								
	4	400	H	ND	ND	60.2	61.6	121.8	230	7/25/2024
	6	320								
	8	80	L	ND	ND	ND	ND	ND	ND	7/31/2024
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	52500	12/2/2023
	2	880								
	4	880								
	6	720								
	8	720								
	10	640								
	12	560								
	14	320	L	ND	ND	ND	ND	ND	211	7/25/2024
SP6	SURF	160	L	ND	ND	ND	ND	ND	64.7	12/2/2023
	2	1360								

	4	1040								
	6	720								
	8	640								
	10	560								
	12	320	L	ND	ND	28.8	ND	28.8	228	7/26/2024
SP7	SURF	>4000	L	ND	ND	ND	ND	ND	40600	12/2/2023
	2	960								
	4	1200								
	6	960								
	8	800								
	10	480								
	12	320	L	ND	ND	ND	ND	ND	319	7/26/2024
SP8	SURF	>4000	L	ND	ND	ND	ND	ND	3390	12/2/2023
	2	400								
	4	320	L	ND	ND	ND	ND	ND	284	7/26/2024
SP9	SURF	2400	L	ND	ND	30.6	ND	30.6	1990	12/2/2023
	2	880								
	4	560								
	6	400	L	ND	ND	ND	ND	ND	319	7/26/2024
SP10	SURF	240	H	ND	ND	47.4	119	166.4	84	12/2/2023
	2	640								
	4	480								
	6	400	L	ND	ND	ND	ND	ND	358	7/26/2024
SP11	SURF	>4000	H	ND	ND	91.9	171	262.9	36700	12/2/2023
	2	720								
	4	480								
	6	400	L	ND	ND	ND	ND	ND	328	7/26/2024
SP12	SURF	240	H	ND	ND	37.2	95.2	132.4	96.3	12/2/2023
	2	240								
	4	160	L	ND	ND	ND	ND	ND	ND	7/29/2024
SP13	SURF	400	L	ND	ND	ND	53.9	53.9	ND	12/2/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	257	7/29/2024

SP14	SURF	240	L	ND	ND	ND	ND	ND	ND	12/2/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	ND	7/29/2024
SP15	SURF	>4000	H	ND	ND	7120	6570	13690	78900	12/2/2023
	2	>4000								
	4	>4000								
	6	>4000								
	8	>4000								
	10	880								
	12	720								
	14	560								
	16	480	L	ND	ND	ND	ND	ND	413	7/29/2024
SP16	SURF	320	L	ND	ND	ND	53.2	53.2	56.3	12/2/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	275	7/29/2024
SP17	SURF	400	L	ND	ND	ND	ND	ND	79.5	12/2/2023
	2	720								
	4	640								
	6	480								
	8	400	L	ND	ND	ND	ND	ND	272	7/29/2024
SP18	SURF	400	L	ND	ND	ND	ND	ND	61300	12/2/2023
	2	320								
	4	240	L	ND	ND	ND	ND	ND	36.3	7/31/2024
SP19	SURF	>4000	L	ND	ND	ND	ND	ND	45800	12/4/2023
	2	1200								
	4	320								
	6	240	L	ND	ND	ND	ND	ND	40.4	7/31/2024
SP20	SURF	>4000	L	ND	ND	ND	ND	ND	4560	12/4/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	241	7/31/2024
SP21	SURF	>4000	L	ND	ND	ND	ND	ND	11800	12/4/2023
	2	400								
	4	320	L	ND	ND	ND	ND	ND	242	7/31/2024

SP22	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	2	400								
	4	240	L	ND	ND	ND	ND	ND	414	8/1/2024
SP23	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	2	800								
	4	400								
	6	400	L	ND	ND	ND	ND	ND	465	8/1/2024
SW1	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	400								
	2	240	L	ND	ND	ND	ND	ND	81.7	8/1/2024
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	23300	12/4/2023
	1	400								
	2	400	L	ND	ND	ND	ND	ND	41.7	8/1/2024
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	13300	12/4/2023
	1	320								
	2	320	L	ND	ND	ND	ND	ND	229	8/1/2024
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	6550	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	113	8/1/2024
SW5	SURF	>4000	L	ND	ND	34.9	59.6	94.5	63200	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	117	8/1/2024
SW6	SURF	>4000	H	ND	ND	285	418	703	8660	12/4/2023
	1	240								
	2	240	H	ND	ND	116	367	483	166	8/1/2024
	3	80								
	4	80	L	ND	ND	ND	ND	ND	ND	8/8/2024
SW7	SURF	3520	L	ND	ND	ND	ND	ND	7640	12/4/2023
	1	240								
	2	240	L	ND	ND	ND	ND	ND	236	8/1/2024
SW8	SURF	>4000	H	ND	ND	63.1	94.7	157.8	28500	12/4/2023
	1	400								

	2	400	L	ND	ND	ND	ND	ND	466	8/1/2024
SW9	SURF	>4000	L	ND	ND	ND	ND	ND	18600	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	44.5	8/1/2024
SW10	SURF	>4000	L	ND	ND	ND	ND	ND	11800	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	22.5	8/1/2024
SW11	SURF	2240	L	ND	ND	ND	ND	ND	5500	12/4/2023
	1	320								
	2	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW12	SURF	160	L	ND	ND	31.4	56.4	87.8	82.8	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW13	SURF	160	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW14	SURF	160	H	ND	ND	29.1	78.1	107.2	ND	12/4/2023
	1	800								
	2	640								
	3	160								
	4	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW15	SURF	>4000	H	ND	ND	312	ND	312	25700	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/2/2024
SW16	SURF	3280	L	ND	ND	ND	ND	ND	5850	12/4/2023
	1	480								
	2	160	L	ND	ND	ND	ND	ND	68.6	8/2/2024
SW17	SURF	240	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	139	8/2/2024
SW18	SURF	240	H	ND	ND	31.5	71.9	103.4	167	12/4/2023

	1	320								
	2	160	L	ND	ND	ND	ND	ND	141	8/2/2024
SW19	SURF	240	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	240								
	2	160	L	ND	ND	ND	ND	ND	98.8	8/2/2024
SW20	SURF	3680	L	ND	ND	ND	ND	ND	5340	12/4/2023
	1	240								
	2	160	L	ND	ND	ND	ND	ND	39	8/2/2024
SW21	SURF	>4000	L	ND	ND	ND	ND	ND	15200	12/4/2023
	1	480								
	2	320	L	ND	ND	ND	ND	ND	159	8/2/2024
SW22	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	38.9	8/2/2024
SW23	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/2/2024
SW24	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/2/2024

Please see the delineation photos attached to this report.

Composite Sampling and Excavation Activities

On October 15, 2024, ESS submitted official notification to the New Mexico Oil Conservation Division (NMOCD) regarding the composite sampling phase of the Spill K release. The NMOCD received and accepted the notification on the same day (see attached email correspondence). Composite sampling at the Spill K release site commenced on September 17, 2024. Crews collected 200-square-foot composite samples from the excavation areas to assess the vertical and lateral extent of soil impacts. A total of 67 bottom-hole (vertical) composites were collected, field-tested, and submitted to Envirotech Analytical Laboratory for confirmation.

During the sampling process, several composites initially exceeded applicable site-specific remediation action levels. These samples were further excavated and retested until analytical

results demonstrated compliance with the NMOCD Closure Criteria for Soils Impacted by a Release (August 14, 2018). Key observations include the following:

- Bottom-hole composites:
 - COMP8, COMP17, COMP21, COMP28, COMP32, COMP35, COMP36, COMP48, and COMP49 initially exceeded either Diesel Range Organics (L-DRO), Oil Range Organics (L-ORO), Total Petroleum Hydrocarbons (L-TPH), or Chlorides (L-CHL).
 - Each of these samples was incrementally excavated to greater depths, resampled, and reanalyzed (e.g., COMP8A, COMP17A, COMP21B, etc.) until all concentrations were below applicable site closure thresholds.
- Sidewall composites:
 - SWCOMP9, SWCOMP10, SWCOMP11, and SWCOMP12 initially exceeded L-DRO, L-ORO, L-TPH, or L-CHL thresholds at varying depths.
 - Subsequent excavation and resampling (e.g., SWCOMP9A, SWCOMP10B, SWCOMP12B) confirmed that all sidewall composite samples met site-specific closure criteria.

The sequential excavation and retesting process ensured that all impacted soils were removed or treated to meet regulatory closure standards. Composite sample results, including laboratory analyses and associated sample maps, are provided in the attachments to this report. These activities demonstrate that the vertical and lateral extent of soil impacts was fully delineated, and all areas of elevated contamination were adequately remediated in accordance with NMOCD guidelines.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
COMP1	4	320	L	ND	ND	ND	ND	ND	235	10/25/2024
COMP2	4	320	L	ND	ND	ND	ND	ND	93.4	10/25/2024
COMP3	4	320	L	ND	ND	ND	ND	ND	335	10/25/2024
COMP4	4	320	L	ND	ND	ND	ND	ND	89.9	10/25/2024
COMP5	4	240	L	ND	ND	ND	ND	ND	332	10/25/2024
COMP6	4	240	L	ND	ND	ND	ND	ND	271	10/25/2024
COMP7	4	400	L	ND	ND	ND	ND	ND	316	10/25/2024
COMP8	4	400	H	ND	ND	76.1	ND	76.1	370	10/25/2024
COMP8A	6	80	L	ND	ND	ND	ND	ND	23.8	12/3/2024

COMP9	4	240	L	ND	ND	ND	ND	ND	138	10/25/2024
COMP10	4	320	L	ND	ND	ND	ND	ND	227	10/25/2024
COMP11	4	480	L	ND	ND	ND	ND	ND	257	10/25/2024
COMP12	4	240	L	ND	ND	ND	ND	ND	140	10/25/2024
COMP13	4	320	L	ND	ND	ND	ND	ND	319	10/25/2024
COMP14	4	320	L	ND	ND	43.9	ND	43.9	278	10/28/2024
COMP15	4	160	L	ND	ND	ND	ND	ND	111	10/28/2024
COMP16	4	160	L	ND	ND	ND	ND	ND	159	10/28/2024
COMP17	4	160	L	ND	ND	ND	ND	ND	1390	10/28/2024
COMP17A	6	160	L	ND	ND	ND	ND	ND	231	12/9/2024
COMP18	4	320	L	ND	ND	ND	ND	ND	276	10/28/2024
COMP19	4	160	L	ND	ND	ND	ND	ND	89.3	10/28/2024
COMP20	4	240	L	ND	ND	ND	ND	ND	163	10/28/2024
COMP21	4	320	H	ND	ND	41.9	57.1	99	285	10/28/2024
COMP21A	6	3440	L	ND	ND	ND	ND	ND	3880	12/3/2024
COMP21B	8	160	L	ND	ND	ND	ND	ND	235	12/9/2024
COMP22	4	160	L	ND	ND	ND	ND	ND	89.8	10/28/2024
COMP23	4	320	L	ND	ND	ND	ND	ND	303	10/28/2024
COMP24	4	160	L	ND	ND	ND	ND	ND	80.5	10/28/2024
COMP25	6	240	L	ND	ND	ND	ND	ND	274	10/29/2024
COMP26	6	400	L	ND	ND	ND	ND	ND	350	10/29/2024
COMP27	2	320	L	ND	ND	ND	ND	ND	173	10/29/2024

COMP28	2	480	H	ND	ND	44	83.5	127.5	470	10/29/2024
	4	320								
COMP28A	6	320	L	ND	ND	ND	ND	ND	329	12/11/2024
COMP29	4	320	L	ND	ND	ND	ND	ND	162	10/29/2024
COMP30	12	320	L	ND	ND	34.4	ND	34.4	298	10/30/2024
COMP31	12	320	L	ND	ND	32.3	ND	32.3	299	10/30/2024
COMP32	4	160	H	ND	ND	68.4	197	265.4	1260	10/30/2024
COMP32A	6	560	L	ND	ND	ND	ND	ND	606	12/3/2024
COMP32B	8	240	L	ND	ND	ND	ND	ND	97.7	12/11/2024
COMP33	4	240	L	ND	ND	ND	ND	ND	1270	10/30/2024
COMP33A	6	80	L	ND	ND	ND	ND	ND	133	12/9/2024
COMP34	4	400	L	ND	ND	ND	ND	ND	374	10/30/2024
COMP35	4	320	H	ND	ND	52.1	52.3	104.4	282	10/30/2024
COMP35A	6	320	L	ND	ND	ND	ND	ND	225	12/3/2024
COMP36	4	160	H	ND	ND	70.1	210	280.1	1330	10/30/2024
COMP36A	6	560	L	ND	ND	ND	ND	ND	649	12/3/2024
COMP36B	8	240	L	ND	ND	ND	ND	ND	82.7	12/11/2024
COMP37	4	160	H	ND	ND	76.5	220	296.5	1310	10/30/2024
	6	640								
COMP37A	8	320	L	ND	ND	ND	ND	ND	555	12/9/2024
COMP38	4	240	L	ND	ND	ND	ND	ND	1410	10/30/2024
COMP38A	6	400	L	ND	ND	ND	ND	ND	749	12/9/2024
COMP38B	8	160	L	ND	ND	ND	ND	ND	75.5	12/13/2024
COMP39	4	320	L	ND	ND	ND	ND	ND	390	10/30/2024
COMP40	6	240	L	ND	ND	ND	ND	ND	171	11/1/2024
COMP41	10	240	L	ND	ND	ND	ND	ND	156	11/1/2024

COMP42	10	400	L	ND	ND	37.5	ND	37.5	295	11/1/2024
COMP43	10	320	L	ND	ND	ND	ND	ND	132	11/1/2024
COMP44	10	320	L	ND	ND	ND	ND	ND	143	11/1/2024
COMP45	8	400	L	ND	ND	42.7	ND	42.7	272	11/1/2024
COMP46	8	240	L	ND	ND	ND	ND	ND	162	11/1/2024
COMP47	8	400	L	ND	ND	38.6	ND	38.6	290	11/1/2024
COMP48	6	160	H	ND	ND	78	219	297	1320	11/1/2024
	14	880								
COMP48A	16	160	L	ND	ND	ND	ND	ND	62.2	12/13/2024
COMP49	6	160	H	ND	ND	79.3	220	299.3	1200	11/1/2024
	14	320								
COMP49A	16	160	L	ND	ND	ND	ND	ND	89.2	12/15/2024
SWCOMP1	4	160	L	ND	ND	ND	ND	ND	33	11/13/2024
SWCOMP2	4	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP3	4	160	L	ND	ND	ND	ND	ND	35	11/13/2024
SWCOMP4	4	160	L	ND	ND	ND	ND	ND	34	11/13/2024
SWCOMP5	10	160	L	ND	ND	ND	ND	ND	34.9	11/13/2024
SWCOMP6	4	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP7	12	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP8	4	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP9	4	160	H	ND	ND	51.9	ND	51.9	803	11/14/2024
SWCOMP9A	6	80	L	ND	ND	ND	ND	ND	24	12/3/2024
SWCOMP10	2	160	H	ND	ND	48.9	51	99.9	862	11/14/2024
SWCOMP10A	4	560	L	ND	ND	ND	ND	ND	626	12/3/2024

SWCOMP10B	6	320	L	ND	ND	ND	ND	ND	440	12/10/2024
SWCOMP11	2	160	H	ND	ND	53	63.5	116.5	816	11/14/2024
SWCOMP11A	4	320	L	ND	ND	ND	ND	ND	223	12/3/2024
SWCOMP12	2	160	H	ND	ND	46.1	52.6	98.7	786	11/14/2024
SWCOMP12A	4	80	L	ND	ND	ND	ND	ND	3970	12/3/2024
SWCOMP12B	6	160	L	ND	ND	ND	ND	ND	156	12/10/2024
SWCOMP13	2	160	L	ND	ND	ND	ND	ND	54	11/14/2024
SWCOMP14	4	160	L	ND	ND	ND	ND	ND	54.4	11/14/2024
SWCOMP15	10	160	L	ND	ND	ND	ND	ND	53.5	11/14/2024
SWCOMP16	10	160	L	ND	ND	ND	ND	ND	58.3	11/14/2024
SWCOMP17	10	240	L	ND	ND	ND	ND	ND	ND	11/14/2024
SWCOMP18	10	240	L	ND	ND	ND	ND	ND	ND	11/14/2024

Please find the remediation photos attached herein.

The impacted area of the Spill K release measured 10,548 square feet. During the remediation phase, a total of 3,600 cubic yards of contaminated soil was excavated and hauled to Gandy’s Disposal, with Bullseye Trucking completing the hauling portion. Additionally, 3,600 cubic yards of fill dirt were hauled from Gandy’s Disposal to the site and stockpiled for backfill, along with 492 cubic yards of topsoil pushed up and hauled from the landowner’s pit. The site was contoured and sloped back to its natural grade and seeded. Backfilling and seeding were completed on January 15th, 2025. Final photos of the completed remediation are attached to this report.

Closure Request

On behalf of Mack Energy, Energy Staffing Services LLC (ESS) requests that the incident NAPP2329852272 be closed for the produced water release that occurred in the pasture area of West Mount Spill K. Mack Energy and ESS certify that all information detailed in this report is true and correct. Both Mack Energy and ESS have complied with all applicable closure requirements for this release.

For any questions or concerns regarding this closure request, please contact the undersigned at (575) 390-6397 or (575) 393-9048, or email 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
- Executive Reclamation Report

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Wednesday, October 25, 2023 3:22 PM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 279342

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (n#) nAPP2329852272, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Scott Rodgers
Environmental Specialist - A
505-469-1830
scott.rodgers@emnr.d.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude **32.987071** Longitude **-104.07267**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name WEST MOUNT SPILL K	Site Type PRODUCTION AREA
Date Release Discovered 9/22/2023	API# <i>(if applicable)</i> 30-005-64381

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

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 137.04	Volume Recovered (bbls) 0BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>NATALIE GLADDEN</u> Title: <u>DIRECTOR OF ENVIRONMENTAL AND REGULATORY</u> Signature: <u></u> Date: <u>10/25/23</u> email: <u>natalie@energystaffingll.com</u> Telephone: <u>575-390-6397</u>
OCD Only Received by: _____ Date: _____

MACK ENERGY - WEST MOUNT SPILL K

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	248.95	148.83	0.083	3075.252	137.04	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravelly Sand	0.26	10	10	0.083	8.3	0.38	Gravelly Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

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


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

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

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

Cubic Feet = L x W x D
 Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

Legend

 Mack Energy, WestMount #1\u2026frac line spill K 10,548 SQ. FT.

 WEST MOUNT SPILL K

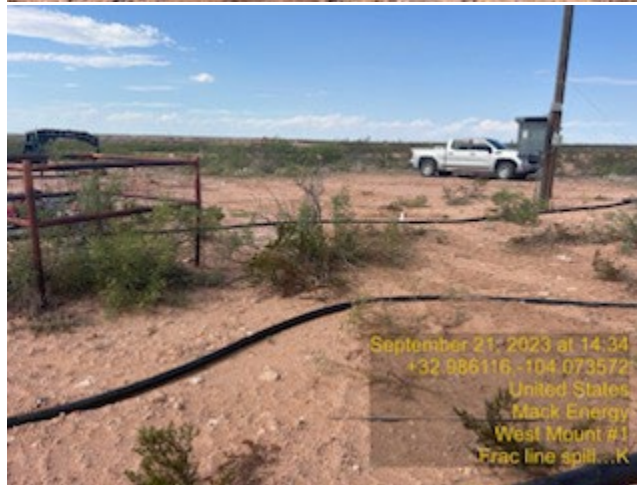


**MACK ENERGY – WEST MOUNT SPILL K
INITIAL SITE PHOTOS**

















Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

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

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

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

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

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

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

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

Reference:

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

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

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

WEST MOUNT SPILL K

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

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

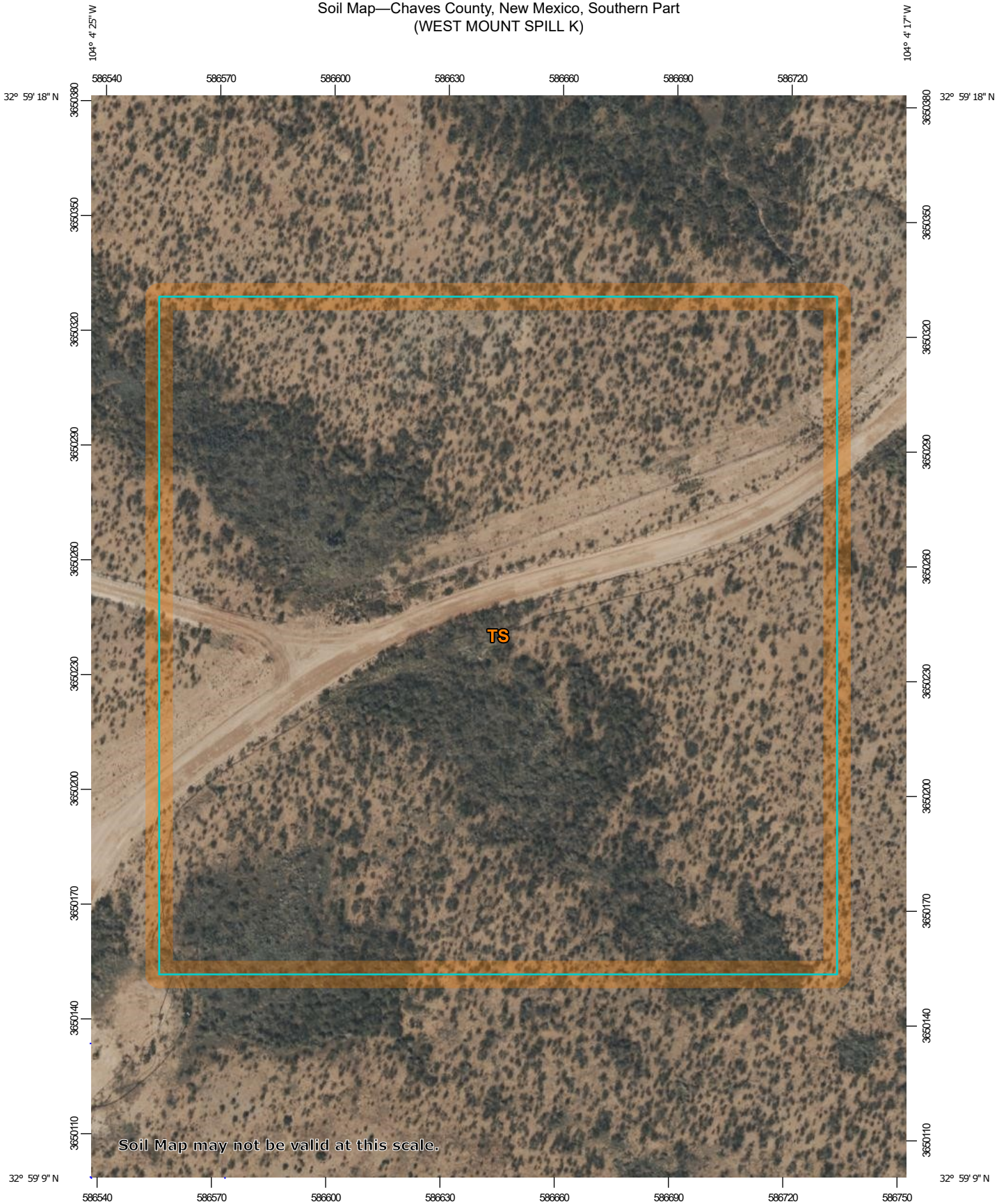
WEST MOUNT SPILL K

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

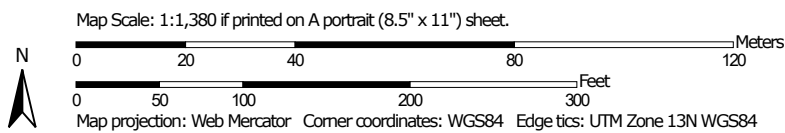
Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 18, Sep 7, 2023

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



Soil Map may not be valid at this scale.



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

6/5/2024
Page 1 of 3


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


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils





 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 18, Sep 7, 2023

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

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

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

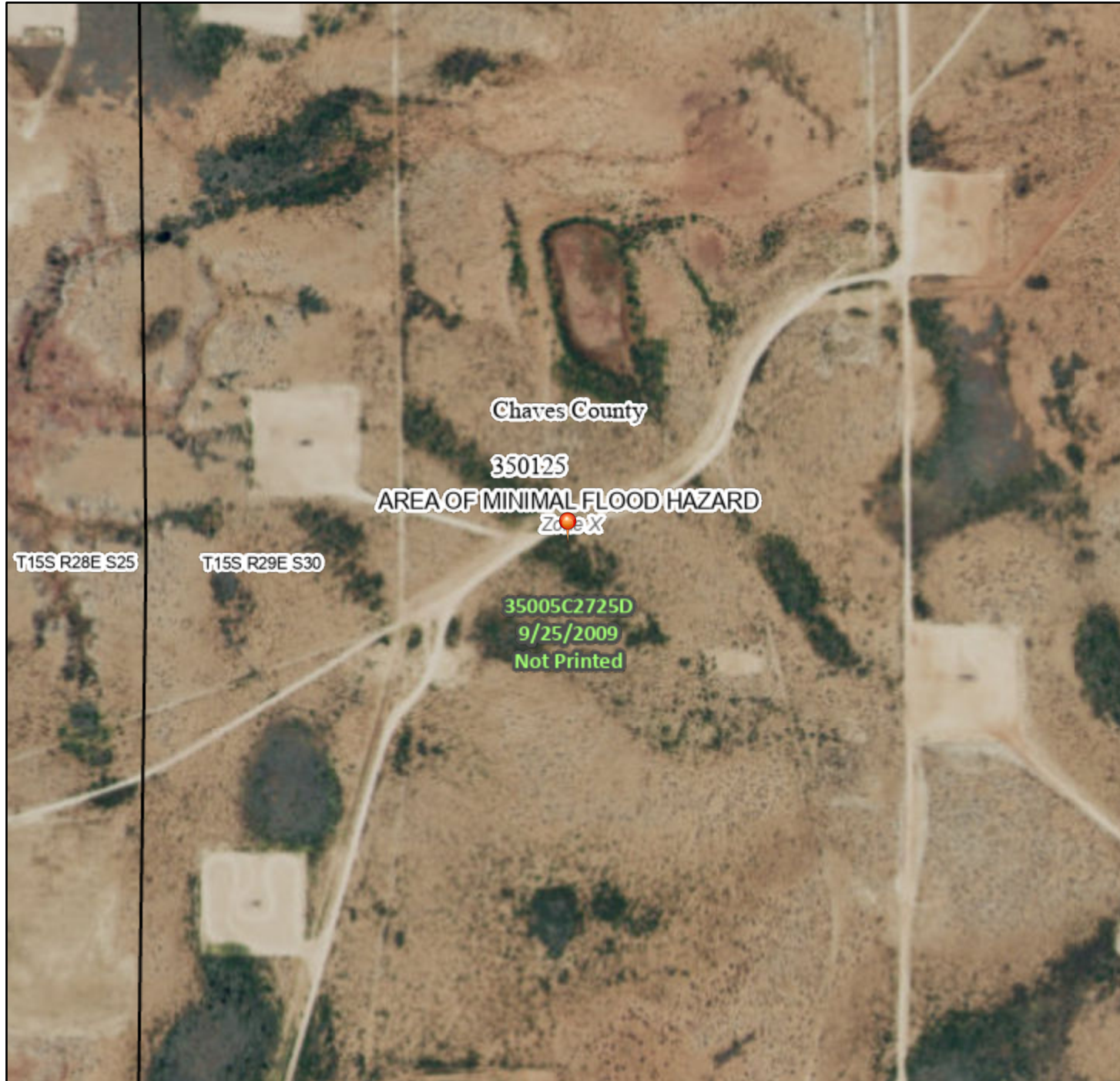
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TS	Tencee-Sotim association	7.8	100.0%
Totals for Area of Interest		7.8	100.0%

National Flood Hazard Layer FIRMette



104°4'40"W 32°59'29"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/5/2024 at 12:13 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.

Released to Imaging: 3/18/2026 9:03:21 AM

1:6,000 Feet
Basemap Imagery Source: USGS National Map 2023

Legend

- High
- Low
- Medium
- WEST MOUNT SPILL K





Round Tank

WEST MOUNT SPILL K

Pipeline

Pipeline



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586584

Northing (Y): 3650149

Radius: 1000

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

6/5/24 10:28 AM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNA83 Radius Search (in meters):

Easting (X): 586584

Northing (Y): 3650149

Radius: 5000

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6/5/24 10:28 AM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

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

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

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

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-Code	basin	County	Source	q 6	q 4	q 1	q 2	q 3	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
RA 12428	RA	CH	Shallow	4	2	1	21	15S	28E					580579	3652317	6384	07/28/2016	08/04/2016	08/08/2016	170	125	DONALD KUEHN III	1058
RA 12429 POD1	RA	CH	Shallow	1	1	4	32	15S	28E					579093	3648401	7692	11/17/2016	11/17/2016	11/28/2016	62	27	EADES, ALAN	1044
RA 09248	RA	CH	Shallow	1	4	3	17	15S	28E					578704	3652884*	8341	07/10/1996	07/13/1996	07/25/1996	150	45	RAYMOND ANDERSON	1344
RA 10280	RA	CH	Shallow	4	3	3	17	15S	28E					578501	3652680*	8470	06/20/2002	07/15/2002	04/23/2003	70	40	CARREON, FERNANDO	1490
RA 09059	RA	CH	Shallow	2	4	4	18	15S	28E					578099	3652875*	8912	11/13/1995	01/15/1996	02/08/1997	110	35	RAYMOND ANDERSON	1344
L 14514 POD1	L	LE	Shallow	2	2	1	32	15S	36E					595494	3649622	8925	08/09/2018	08/10/2018	08/17/2018	208	77	JOHN GOERTZEN	1611

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 586584

Northing (Y): 3650149

Radius: 10000

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number								
	RA 09059								
		(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
		2	4	4	18	15S	28E	578099	3652875*

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

Water Bearing Stratifications:	Top	Bottom	Description
	60	65	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	30	90


*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer Point of Diversion Summary

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

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

Driller License: 1344	Driller Company: ANDERSON, RAYMOND	
Driller Name: RAYMOND ANDERSON		
Drill Start Date: 07/10/1996	Drill Finish Date: 07/13/1996	Plug Date:
Log File Date: 07/25/1996	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 2 GPM
Casing Size: 4.50	Depth Well: 150 feet	Depth Water: 45 feet

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

Casing Perforations:	Top	Bottom
	45	100

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer Point of Diversion Summary

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

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

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

Water Bearing Stratifications:	Top	Bottom	Description
	1	70	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	70

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(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				
	RA 12428	4 2 1 21 15S 28E	580579	3652317				

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

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

Casing Perforations:	Top	Bottom
	125	170

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New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(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		
RA 12429	POD1	1 1 4	32	15S	28E	579093	3648401		

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

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

Casing Perforations:	Top	Bottom
	22	62

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Legend

- RA09059-8,912-35 FT
- RA09248-8,341-45 FT
- RA10280-8,470-40 FT
- RA12428-6,384-125 FT
- RA12429 POD1-7,692-27 FT
- WEST MOUNT SPILL K

RA09059-8,912-35 FT
RA09248-8,341-45 FT
RA10280-8,470-40 FT

RA12428-6,384-125 FT

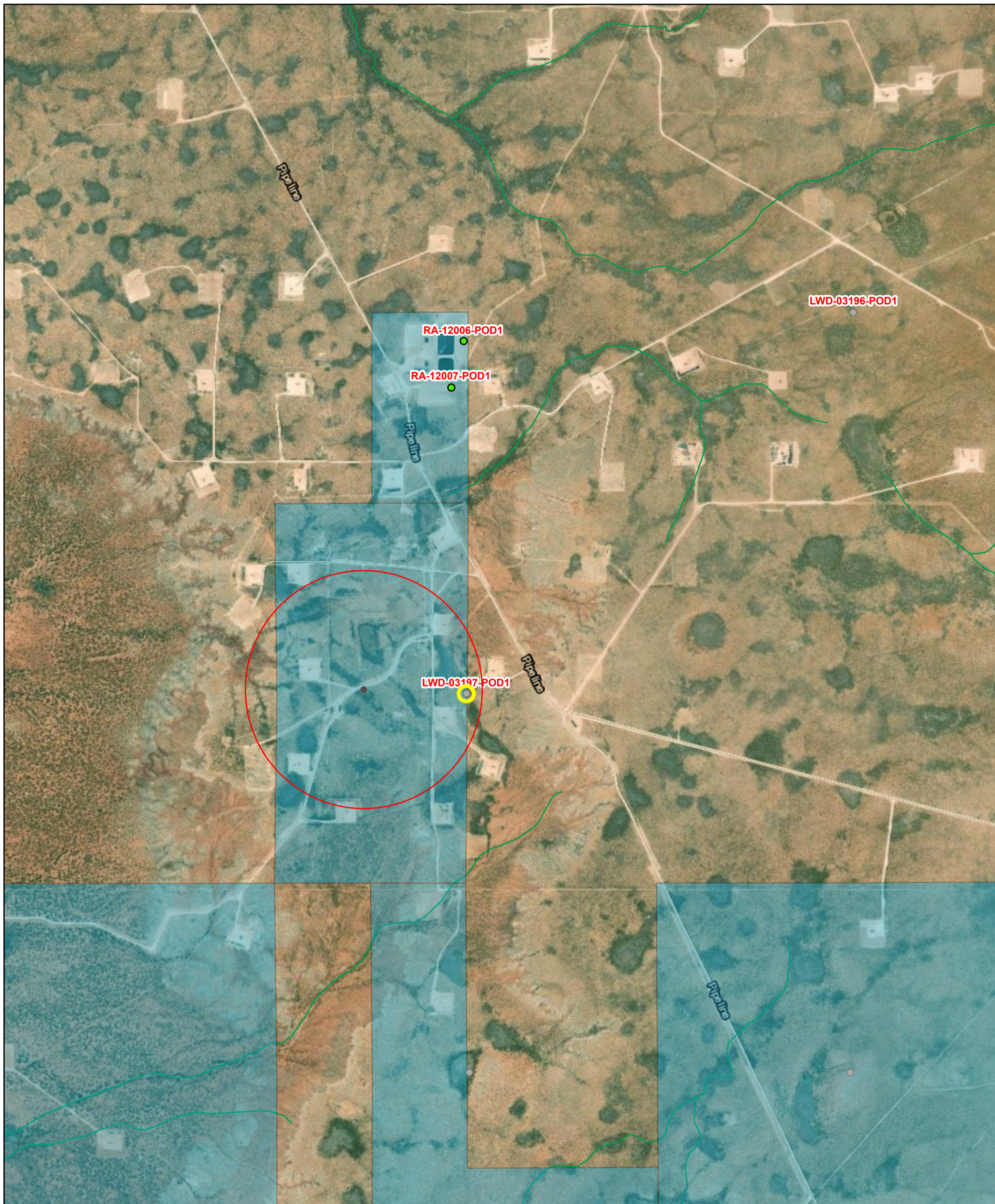
WEST MOUNT SPILL K

RA12429 POD1-7,692-27 FT

1 mi



OSE POD Location Map



6/21/2024, 12:48:54 PM

GIS WATERS PODs

New Mexico State Trust Lands

1:18,056

● Pending

■ Both Estates

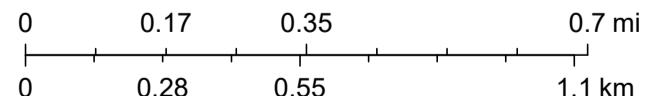
●

NHD Flowlines

□ OSE District Boundary

— Artificial Path

— Stream River



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

Company Name: MACK

Location Name: WEST MOUNT SPILL K

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
SP1	SURF	160	L	ND	ND	ND	ND	ND	ND	12/2/2023
	2	>4000								
	4	>4000								
	6	>4000								
	8	>4000								
	10	1360								
	12	400								
	14	240	L	ND	ND	ND	ND	ND	90.3	7/25/2024
SP2	SURF	>4000	L	ND	ND	26.8	ND	26.8	28400	12/2/2023
	2	1360								
	4	2000								
	6	1440								
	8	1040								
	10	720								
	12	320								
	14	240	L	ND	ND	ND	ND	ND	198	7/25/2024
SP3	SURF	>4000	H	ND	ND	44.2	87.3	131.5	9180	12/2/2023
	2	560								
	4	480	H	ND	ND	769	1470	2239	442	7/25/2024
	6	320								
	8	80	L	ND	ND	ND	ND	ND	ND	7/31/2024
SP4	SURF	>4000	L	ND	ND	ND	ND	ND	5380	12/2/2023
	2	560								
	4	400	H	ND	ND	60.2	61.6	121.8	230	7/25/2024
	6	320								
	8	80	L	ND	ND	ND	ND	ND	ND	7/31/2024
SP5	SURF	>4000	L	ND	ND	ND	ND	ND	52500	12/2/2023

	2	880								
	4	880								
	6	720								
	8	720								
	10	640								
	12	560								
	14	320	L	ND	ND	ND	ND	ND	211	7/25/2024
SP6	SURF	160	L	ND	ND	ND	ND	ND	64.7	12/2/2023
	2	1360								
	4	1040								
	6	720								
	8	640								
	10	560								
	12	320	L	ND	ND	28.8	ND	28.8	228	7/26/2024
SP7	SURF	>4000	L	ND	ND	ND	ND	ND	40600	12/2/2023
	2	960								
	4	1200								
	6	960								
	8	800								
	10	480								
	12	320	L	ND	ND	ND	ND	ND	319	7/26/2024
SP8	SURF	>4000	L	ND	ND	ND	ND	ND	3390	12/2/2023
	2	400								
	4	320	L	ND	ND	ND	ND	ND	284	7/26/2024
SP9	SURF	2400	L	ND	ND	30.6	ND	30.6	1990	12/2/2023
	2	880								
	4	560								
	6	400	L	ND	ND	ND	ND	ND	319	7/26/2024
SP10	SURF	240	H	ND	ND	47.4	119	166.4	84	12/2/2023

	2	640								
	4	480								
	6	400	L	ND	ND	ND	ND	ND	358	7/26/2024
SP11	SURF	>4000	H	ND	ND	91.9	171	262.9	36700	12/2/2023
	2	720								
	4	480								
	6	400	L	ND	ND	ND	ND	ND	328	7/26/2024
SP12	SURF	240	H	ND	ND	37.2	95.2	132.4	96.3	12/2/2023
	2	240								
	4	160	L	ND	ND	ND	ND	ND	ND	7/29/2024
SP13	SURF	400	L	ND	ND	ND	53.9	53.9	ND	12/2/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	257	7/29/2024
SP14	SURF	240	L	ND	ND	ND	ND	ND	ND	12/2/2023
	2	160								
	4	160	L	ND	ND	ND	ND	ND	ND	7/29/2024
SP15	SURF	>4000	H	ND	ND	7120	6570	13690	78900	12/2/2023
	2	>4000								
	4	>4000								
	6	>4000								
	8	>4000								
	10	880								
	12	720								
	14	560								
	16	480	L	ND	ND	ND	ND	ND	413	7/29/2024
SP16	SURF	320	L	ND	ND	ND	53.2	53.2	56.3	12/2/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	275	7/29/2024

SP17	SURF	400	L	ND	ND	ND	ND	ND	79.5	12/2/2023
	2	720								
	4	640								
	6	480								
	8	400	L	ND	ND	ND	ND	ND	272	7/29/2024
SP18	SURF	400	L	ND	ND	ND	ND	ND	61300	12/2/2023
	2	320								
	4	240	L	ND	ND	ND	ND	ND	36.3	7/31/2024
SP19	SURF	>4000	L	ND	ND	ND	ND	ND	45800	12/4/2023
	2	1200								
	4	320								
	6	240	L	ND	ND	ND	ND	ND	40.4	7/31/2024
SP20	SURF	>4000	L	ND	ND	ND	ND	ND	4560	12/4/2023
	2	480								
	4	400	L	ND	ND	ND	ND	ND	241	7/31/2024
SP21	SURF	>4000	L	ND	ND	ND	ND	ND	11800	12/4/2023
	2	400								
	4	320	L	ND	ND	ND	ND	ND	242	7/31/2024
SP22	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	2	400								
	4	240	L	ND	ND	ND	ND	ND	414	8/1/2024
SP23	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	2	800								
	4	400								
	6	400	L	ND	ND	ND	ND	ND	465	8/1/2024
SW1	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023

	1	400								
	2	240	L	ND	ND	ND	ND	ND	81.7	8/1/2024
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	23300	12/4/2023
	1	400								
	2	400	L	ND	ND	ND	ND	ND	41.7	8/1/2024
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	13300	12/4/2023
	1	320								
	2	320	L	ND	ND	ND	ND	ND	229	8/1/2024
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	6550	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	113	8/1/2024
SW5	SURF	>4000	L	ND	ND	34.9	59.6	94.5	63200	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	117	8/1/2024
SW6	SURF	>4000	H	ND	ND	285	418	703	8660	12/4/2023
	1	240								
	2	240	H	ND	ND	116	367	483	166	8/1/2024
	3	80								
	4	80	L	ND	ND	ND	ND	ND	ND	8/8/2024
SW7	SURF	3520	L	ND	ND	ND	ND	ND	7640	12/4/2023
	1	240								
	2	240	L	ND	ND	ND	ND	ND	236	8/1/2024
SW8	SURF	>4000	H	ND	ND	63.1	94.7	157.8	28500	12/4/2023
	1	400								
	2	400	L	ND	ND	ND	ND	ND	466	8/1/2024
SW9	SURF	>4000	L	ND	ND	ND	ND	ND	18600	12/4/2023

	1	160								
	2	160	L	ND	ND	ND	ND	ND	44.5	8/1/2024
SW10	SURF	>4000	L	ND	ND	ND	ND	ND	11800	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	22.5	8/1/2024
SW11	SURF	2240	L	ND	ND	ND	ND	ND	5500	12/4/2023
	1	320								
	2	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW12	SURF	160	L	ND	ND	31.4	56.4	87.8	82.8	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW13	SURF	160	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW14	SURF	160	H	ND	ND	29.1	78.1	107.2	ND	12/4/2023
	1	800								
	2	640								
	3	160								
	4	160	L	ND	ND	ND	ND	ND	ND	8/1/2024
SW15	SURF	>4000	H	ND	ND	312	ND	312	25700	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/2/2024
SW16	SURF	3280	L	ND	ND	ND	ND	ND	5850	12/4/2023
	1	480								
	2	160	L	ND	ND	ND	ND	ND	68.6	8/2/2024
SW17	SURF	240	L	ND	ND	ND	ND	ND	ND	12/4/2023

	1	160								
	2	160	L	ND	ND	ND	ND	ND	139	8/2/2024
SW18	SURF	240	H	ND	ND	31.5	71.9	103.4	167	12/4/2023
	1	320								
	2	160	L	ND	ND	ND	ND	ND	141	8/2/2024
SW19	SURF	240	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	240								
	2	160	L	ND	ND	ND	ND	ND	98.8	8/2/2024
SW20	SURF	3680	L	ND	ND	ND	ND	ND	5340	12/4/2023
	1	240								
	2	160	L	ND	ND	ND	ND	ND	39	8/2/2024
SW21	SURF	>4000	L	ND	ND	ND	ND	ND	15200	12/4/2023
	1	480								
	2	320	L	ND	ND	ND	ND	ND	159	8/2/2024
SW22	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	38.9	8/2/2024
SW23	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/2/2024
SW24	SURF	80	L	ND	ND	ND	ND	ND	ND	12/4/2023
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	8/2/2024



SP2

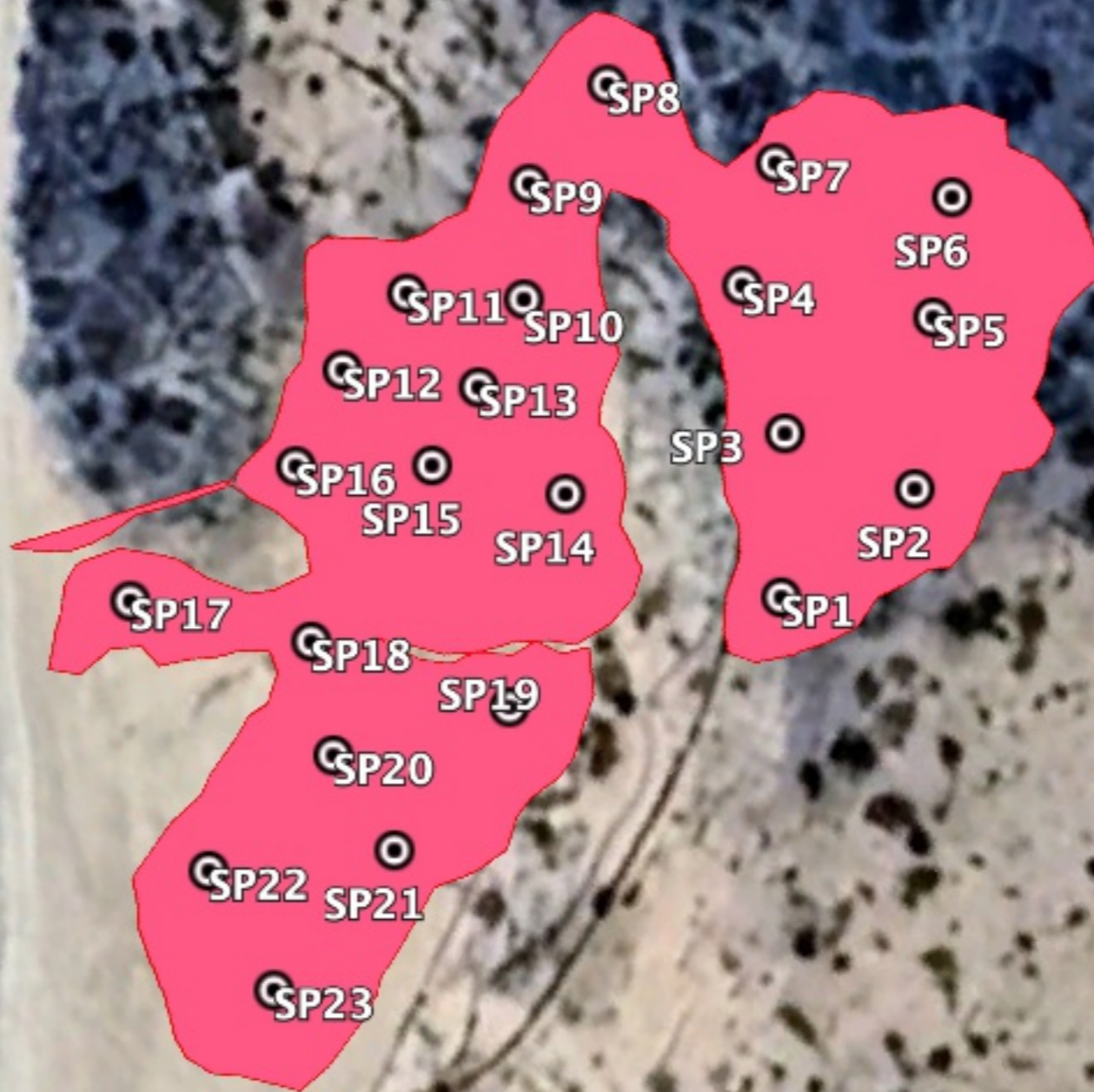
SP1

Mack Energy. WestMount #1 frac line spill K 10,548 SQ. FT.

SAMPLE POINT - 23

Legend




-  Mack Energy. WestMount #1 frac line spill K 10,548 SQ. FT.
-  SAMPLE POINT #

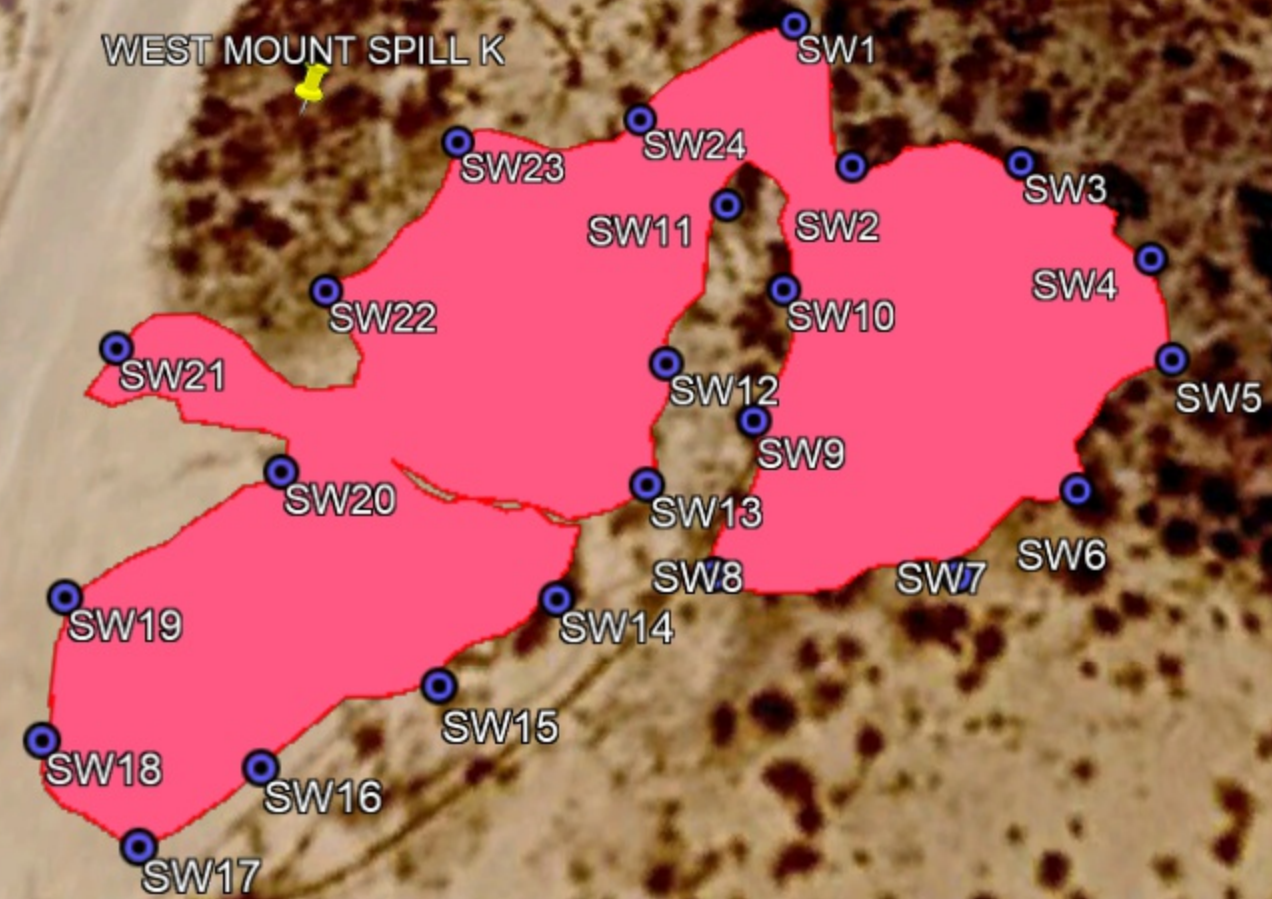


MACK ENERGY

WEST MOUNT SPILL K
DELINEATION SIDEWALL MAP

Legend

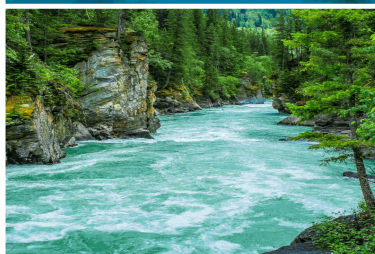
-  HORIZONTAL SIDEWALL SAMPLE PTS
-  Mack Energy, WestMount #1\frac line spill K 10,548 SQ. FT.
-  WEST MOUNT SPILL K



COMPANY: MACK ENERGY**LOCATION: WEST MOUNT FRAC LINE SPILL K**

POINT	LATITUDE	LONGITUDE
SP1	32.986161°	-104.073512°
SP2	32.986185°	-104.073433°
SP3	32.986224°	-104.073484°
SP4	32.986287°	-104.073480°
SP5	32.986249°	-104.073397°
SP6	32.986293°	-104.073369°
SP7	32.986330°	-104.073445°
SP8	32.986383°	-104.073510°
SP9	32.986355°	-104.073562°
SP10	32.986311°	-104.073583°
SP11	32.986329°	-104.073636°
SP12	32.986308°	-104.073678°
SP13	32.986283°	-104.073618°
SP14	32.986230°	-104.073595°
SP15	32.986259°	-104.073652°
SP16	32.986277°	-104.073715°
SP17	32.986247°	-104.073813°
SP18	32.986207°	-104.073736°
SP19	32.986155°	-104.073655°
SP20	32.986160°	-104.073744°
SP21	32.986115°	-104.073731°
SP22	32.986132°	-104.073820°
SP23	32.986077°	-104.073809°
SW1	32.986406°	-104.073500°
SW2	32.986331°	-104.073471°
SW3	32.986333°	-104.073382°
SW4	32.986285°	-104.073318°
SW5	32.986236°	-104.073312°
SW6	32.986175°	-104.073365°
SW7	32.986137°	-104.073426°
SW8	32.986138°	-104.073544°
SW9	32.986207°	-104.073524°
SW10	32.986269°	-104.073508°
SW11	32.986311°	-104.073537°
SW12	32.986234°	-104.073568°
SW13	32.986178°	-104.073577°
SW14	32.986128°	-104.073620°
SW15	32.986092°	-104.073675°
SW16	32.986059°	-104.073757°
SW17	32.986028°	-104.073811°
SW18	32.986072°	-104.073863°

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill K

Work Order: E312011

Job Number: 20046-0001

Received: 12/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 12/6/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill K
Workorder: E312011
Date Received: 12/5/2023 7:30:00AM

Natalie Gladden,

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

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

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

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

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

Respectfully,

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/06/23 14:56
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-Surface	E312011-01A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP2-Surf	E312011-02A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP3-Surf	E312011-03A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP4-Surf	E312011-04A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP5-Surf	E312011-05A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP6-Surf	E312011-06A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP7-Surf	E312011-07A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP8-Surf	E312011-08A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP9-Surf	E312011-09A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP10-Surf	E312011-10A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP11-Surf	E312011-11A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP12-Surf	E312011-12A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP13-Surf	E312011-13A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP14-Surf	E312011-14A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP15-Surf	E312011-15A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP16-Surf	E312011-16A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP17-Surf	E312011-17A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.
SP18-Surf	E312011-18A	Soil	12/02/23	12/05/23	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP1-Surface

E312011-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS	Batch: 2349029	
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS	Batch: 2349029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL	Batch: 2349026	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		90.4 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA	Batch: 2349035	
Chloride	ND	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP2-Surf
E312011-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	26.8	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		80.4 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	28400	400	20	12/05/23	12/05/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP3-Surf

E312011-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	44.2	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	87.3	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		92.6 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	9180	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP4-Surf

E312011-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>						
		96.3 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	5380	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP5-Surf

E312011-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349026	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		94.7 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349035	
Chloride	52500	1000	50	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP6-Surf

E312011-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		98.6 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	64.7	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP7-Surf

E312011-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349026	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		101 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349035	
Chloride	40600	1000	50	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP8-Surf
E312011-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		97.2 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	3390	40.0	2	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP9-Surf

E312011-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	30.6	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		96.4 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	1990	40.0	2	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP10-Surf

E312011-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	47.4	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	119	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	84.0	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP11-Surf

E312011-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.7 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349026	
Diesel Range Organics (C10-C28)	91.9	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	171	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		100 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349035	
Chloride	36700	1000	50	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP12-Surf

E312011-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	37.2	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	95.2	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	96.3	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP13-Surf

E312011-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	53.9	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		97.3 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	ND	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP14-Surf

E312011-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		60.6 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	ND	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP15-Surf

E312011-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349026	
Diesel Range Organics (C10-C28)	7120	500	20	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	6570	1000	20	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		99.8 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349035	
Chloride	78900	1000	50	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP16-Surf

E312011-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	53.2	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		95.7 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	56.3	40.0	2	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP17-Surf

E312011-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		99.1 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	79.5	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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SP18-Surf

E312011-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349029
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349026
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		98.1 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349035
Chloride	61300	1000	50	12/05/23	12/06/23	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349029-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2349029-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.3	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

Matrix Spike (2349029-MS1)

Source: E312011-05

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	4.63	0.0250	5.00	ND	92.5	54-133			
Ethylbenzene	4.47	0.0250	5.00	ND	89.5	61-133			
Toluene	4.65	0.0250	5.00	ND	93.0	61-130			
o-Xylene	4.59	0.0250	5.00	ND	91.8	63-131			
p,m-Xylene	9.24	0.0500	10.0	ND	92.4	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

Matrix Spike Dup (2349029-MSD1)

Source: E312011-05

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	5.01	0.0250	5.00	ND	100	54-133	8.08	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133	8.32	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	8.08	20	
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131	8.32	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	8.22	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	8.26	20	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349029-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

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

LCS (2349029-BS2)

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2349029-MS2)

Source: E312011-05

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike Dup (2349029-MSD2)

Source: E312011-05

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130	4.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349026-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.1		50.0		96.2	50-200			

LCS (2349026-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: <i>n</i> -Nonane	47.2		50.0		94.4	50-200			

Matrix Spike (2349026-MS1)

Source: E312011-04

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: <i>n</i> -Nonane	51.3		50.0		103	50-200			

Matrix Spike Dup (2349026-MSD1)

Source: E312011-04

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.93	20	
Surrogate: <i>n</i> -Nonane	50.5		50.0		101	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:56:33PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349035-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride	ND	20.0							
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LCS (2349035-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride	241	20.0	250		96.4	90-110			
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Matrix Spike (2349035-MS1)

Source: E312011-03

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride	9150	200	250	9180	NR	80-120			M4
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Matrix Spike Dup (2349035-MSD1)

Source: E312011-03

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride	8460	200	250	9180	NR	80-120	7.81	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 14:56

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.



Client: <u>Neale Energy</u>	Bill To	Lab Use Only		TAT			EPA Program		
Project: <u>Westmount Spill</u>	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager:	Address: 2724 NW COUNTY RD	<u>E-312011</u>	<u>20046-0001</u>		<input checked="" type="checkbox"/>				
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							RCRA
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM	State							
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM	NM	CO	UT	AZ	TX	Remarks		
Report due by:		<input checked="" type="checkbox"/>							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/1/23	S	1	Sp 1 - surface	1							<input checked="" type="checkbox"/>		
				Sp 2 - surf	2									
				Sp 3 - surf	3									
				Sp 4 - surf	4									
				Sp 5 - surf	5									
				Sp 6 - surf	6									
				Sp 7 - surf	7									
				Sp 8 - surf	8									
				Sp 9 - surf	9									
	12/1/23	S	1	Sp 10 - surf	10							<input checked="" type="checkbox"/>		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Curuga</u>	Date <u>12/2/23</u>	Time	Received by: (Signature) <u>Michelle Geyl</u>	Date <u>12-4-23</u>	Time <u>1315</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Geyl</u>	Date <u>12-4-23</u>	Time <u>1630</u>	Received by: (Signature) <u>Andrew Messo</u>	Date <u>12-4-23</u>	Time <u>1630</u>	
Relinquished by: (Signature) <u>Andrew Messo</u>	Date <u>12-4-23</u>	Time <u>2245</u>	Received by: (Signature) <u>Mentem</u>	Date <u>12/5/23</u>	Time <u>7:30</u>	

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



Project Information

Chain of Custody

Client: <u>Westmount Mule Energy</u>	Bill To	Lab Use Only			TAT			EPA Program		
Project: <u>Westmount Spill K</u>	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA	
Project Manager:	Address: 2724 NW COUNTY RD	<u>E 312011</u>	<u>20046-0001</u>		<input checked="" type="checkbox"/>					
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							RCRA	
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX							State	
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM								NM	CO
City, State, Zip	Email: BRITTNEY@ENERGYSTAFFINGLLC.COM								Remarks	
Report due by:										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/4/23	S	1	SP11 - surf	11							<input checked="" type="checkbox"/>		
				SP12 - surf	12									
				SP13 - surf	13									
				SP14 - surf	14									
				SP15 - surf	15									
				SP16 - surf	16									
				SP17 - surf	17									
	12/4/23	S	1	SP18 - surf	18							<input checked="" type="checkbox"/>		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Trujillo</u>	Date <u>12/4/23</u>	Time <u>1315</u>	Received by: (Signature) <u>Michelle Key</u>	Date <u>12-4-23</u>	Time <u>1315</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <u>Michelle Key</u>	Date <u>12-4-23</u>	Time <u>1630</u>	Received by: (Signature) <u>Andrew Hesse</u>	Date <u>12-4-23</u>	Time <u>1630</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Andrew Hesse</u>	Date <u>12-4-23</u>	Time <u>2245</u>	Received by: (Signature) <u>Qmentro</u>	Date <u>12/5/23</u>	Time <u>7:30</u>	AVG Temp °C <u>4</u>

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

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

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



Envirotech Analytical Laboratory

Printed: 12/5/2023 9:17:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 12/05/23 07:30	Work Order ID: E312011
Phone: (575) 390-6397	Date Logged In: 12/04/23 15:13	Logged In By: Jordan Montano
Email: Natalie@energystaffingllc.com	Due Date: 12/06/23 17:00 (1 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
 - 8. If yes, was cooler received in good condition? Yes
 - 9. Was the sample(s) received intact, i.e., not broken? Yes
 - 10. Were custody/security seals present? No
 - 11. If yes, were custody/security seals intact? NA
 - 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

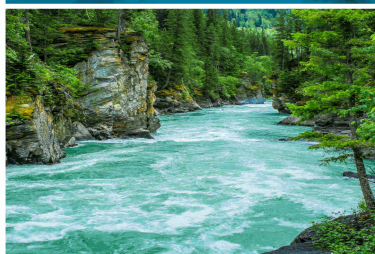
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill K

Work Order: E312029

Job Number: 20046-0001

Received: 12/6/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/7/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/7/23



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill K
Workorder: E312029
Date Received: 12/6/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/6/2023 7:30:00AM, under the Project Name: West Mount Spill K.

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

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

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

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

Respectfully,

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

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Sample Summary

Mack Energy
7 W. Compress Road
Artesia NM, 88210

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

Reported:
12/07/23 16:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1- Surf	E312029-01A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW2- Surf	E312029-02A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW3- Surf	E312029-03A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW4- Surf	E312029-04A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW5- Surf	E312029-05A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW6- Surf	E312029-06A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW7- Surf	E312029-07A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW8- Surf	E312029-08A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW9- Surf	E312029-09A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW10- Surf	E312029-10A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW11- Surf	E312029-11A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW12- Surf	E312029-12A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW13- Surf	E312029-13A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW14- Surf	E312029-14A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW15- Surf	E312029-15A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW16- Surf	E312029-16A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW17- Surf	E312029-17A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW18- Surf	E312029-18A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW19- Surf	E312029-19A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW20- Surf	E312029-20A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW21- Surf	E312029-21A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW22- Surf	E312029-22A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW23- Surf	E312029-23A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SW24- Surf	E312029-24A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW1- Surf
E312029-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.8 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>						
		87.6 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	ND	20.0	1	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW2- Surf
E312029-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.0 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349057	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		87.8 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2349067	
Chloride	23300	400	20	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW3- Surf
E312029-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		87.3 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	13300	200	10	12/06/23	12/07/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW4- Surf

E312029-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.8 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		82.5 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	6550	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW5- Surf
E312029-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.1 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.1 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	34.9	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	59.6	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>						
		83.5 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	63200	1000	50	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW6- Surf
E312029-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349057	
Diesel Range Organics (C10-C28)	285	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	418	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		84.2 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2349067	
Chloride	8660	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW7- Surf

E312029-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.2 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		82.0 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	7640	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW8- Surf
E312029-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	63.1	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	94.7	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		84.5 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	28500	1000	50	12/06/23	12/07/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW9- Surf
E312029-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.7 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349057	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
<i>Surrogate: n-Nonane</i>		84.9 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2349067	
Chloride	18600	400	20	12/06/23	12/07/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW10- Surf
E312029-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.8 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		80.3 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	11800	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW11- Surf
E312029-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		84.3 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	5500	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW12- Surf
E312029-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	31.4	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	56.4	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		82.4 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	82.8	20.0	1	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW13- Surf
E312029-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		84.3 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	ND	20.0	1	12/06/23	12/07/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW14- Surf
E312029-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	29.1	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	78.1	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>						
		84.8 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	ND	20.0	1	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW15- Surf
E312029-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349057	
Diesel Range Organics (C10-C28)	312	250	10	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	500	10	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		76.5 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2349067	
Chloride	25700	400	20	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW16- Surf
E312029-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.2 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		83.4 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	5850	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW17- Surf
E312029-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.0 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		89.5 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	ND	20.0	1	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW18- Surf
E312029-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	31.5	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	71.9	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		83.8 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	167	20.0	1	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW19- Surf
E312029-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.5 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>						
		86.1 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	ND	20.0	1	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW20- Surf
E312029-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.5 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349065
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349057
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		82.0 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349067
Chloride	5340	200	10	12/06/23	12/07/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW21- Surf
E312029-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349056
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349056
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.6 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349062
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		76.3 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349066
Chloride	15200	200	10	12/06/23	12/06/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW22- Surf
E312029-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349056
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.2 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349056
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349062
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		81.1 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349066
Chloride	ND	20.0	1	12/06/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW23- Surf
E312029-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2349056	
Benzene	ND	0.0250	1	12/06/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/06/23	
Toluene	ND	0.0250	1	12/06/23	12/06/23	
o-Xylene	ND	0.0250	1	12/06/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/06/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.5 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2349056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/06/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349062	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		82.5 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2349066	
Chloride	ND	20.0	1	12/06/23	12/06/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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SW24- Surf
E312029-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349056
Benzene	ND	0.0250	1	12/06/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/07/23	
Toluene	ND	0.0250	1	12/06/23	12/07/23	
o-Xylene	ND	0.0250	1	12/06/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349056
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %	70-130	12/06/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349062
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		81.8 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349066
Chloride	ND	20.0	1	12/06/23	12/06/23	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349056-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

LCS (2349056-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	4.88	0.0250	5.00		97.6	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.91	0.0250	5.00		98.2	70-130			
o-Xylene	4.85	0.0250	5.00		97.0	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.6	0.0250	15.0		97.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2349056-MS1)

Source: E312029-23

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	4.69	0.0250	5.00	ND	93.7	54-133			
Ethylbenzene	4.54	0.0250	5.00	ND	90.7	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.2	63-131			
p,m-Xylene	9.38	0.0500	10.0	ND	93.8	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.1	70-130			

Matrix Spike Dup (2349056-MSD1)

Source: E312029-23

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	5.20	0.0250	5.00	ND	104	54-133	10.5	20	
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133	10.3	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	10.3	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	10.2	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	10.0	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	10.1	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349065-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			

LCS (2349065-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	4.31	0.0250	5.00		86.2	70-130			
Ethylbenzene	4.26	0.0250	5.00		85.2	70-130			
Toluene	4.31	0.0250	5.00		86.2	70-130			
o-Xylene	4.28	0.0250	5.00		85.5	70-130			
p,m-Xylene	8.69	0.0500	10.0		86.9	70-130			
Total Xylenes	13.0	0.0250	15.0		86.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

Matrix Spike (2349065-MS1)

Source: E312029-06

Prepared: 12/06/23 Analyzed: 12/07/23

Benzene	5.25	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133			
Toluene	5.25	0.0250	5.00	ND	105	61-130			
o-Xylene	5.16	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2349065-MSD1)

Source: E312029-06

Prepared: 12/06/23 Analyzed: 12/07/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	0.784	20	
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133	0.777	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	0.866	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	1.06	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.814	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	0.897	20	
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349056-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

LCS (2349056-BS2)

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2349056-MS2)

Source: E312029-23

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2349056-MSD2)

Source: E312029-23

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.5	70-130	2.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349065-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2349065-BS2)

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			

Matrix Spike (2349065-MS2)

Source: E312029-06

Prepared: 12/06/23 Analyzed: 12/07/23

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike Dup (2349065-MSD2)

Source: E312029-06

Prepared: 12/06/23 Analyzed: 12/07/23

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	2.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349057-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.5		50.0		86.9	50-200			

LCS (2349057-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	43.5		50.0		87.1	50-200			

Matrix Spike (2349057-MS1)

Source: E312029-09

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.2	38-132			
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			

Matrix Spike Dup (2349057-MSD1)

Source: E312029-09

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	215	25.0	250	ND	86.0	38-132	4.82	20	
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349062-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	39.0		50.0		78.1	50-200			

LCS (2349062-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	215	25.0	250		85.9	38-132			
Surrogate: <i>n</i> -Nonane	39.8		50.0		79.7	50-200			

Matrix Spike (2349062-MS1)

Source: E311245-05

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	216	25.0	250	ND	86.5	38-132			
Surrogate: <i>n</i> -Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2349062-MSD1)

Source: E311245-05

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.7	38-132	0.986	20	
Surrogate: <i>n</i> -Nonane	40.0		50.0		80.0	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill K	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/7/2023 4:05:11PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2349066-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride	ND	20.0							
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LCS (2349066-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride	249	20.0	250		99.4	90-110			
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Matrix Spike (2349066-MS1)

Source: E312027-02

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride	248	20.0	250	ND	99.3	80-120			
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Matrix Spike Dup (2349066-MSD1)

Source: E312027-02

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride	251	20.0	250	ND	100	80-120	0.987	20	
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QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 4:05:11PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349067-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride	ND	20.0							
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LCS (2349067-BS1)

Prepared: 12/06/23 Analyzed: 12/07/23

Chloride	248	20.0	250		99.0	90-110			
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Matrix Spike (2349067-MS1)

Source: E312029-02

Prepared: 12/06/23 Analyzed: 12/07/23

Chloride	24900	400	250	23300	615	80-120			M4
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Matrix Spike Dup (2349067-MSD1)

Source: E312029-02

Prepared: 12/06/23 Analyzed: 12/07/23

Chloride	24100	400	250	23300	312	80-120	3.09	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/07/23 16:05
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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.



Released to Imaging - 3/18/2026 9:03:21 AM

Project Information

Chain of Custody

Client: Michelle Energy
 Project: Westmount spill k
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:
 Report due by:

Bill To
 Attention: ENERGY STAFFING SERVICES
 Address: 2724 NW COUNTY RD
 City, State, Zip HOBBS, NM 88240
 Phone: 575-393-9048
 Email: NATALIE@ENERGYSTAFFINGLLC.COM
 BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only		TAT			EPA Program		
Lab WO# <u>E 312029</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA	SDWA
Analysis and Method							RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	<u>12/24/23</u>	<u>S</u>	<u>1</u>	<u>SW1 - surf</u>	<u>1</u>							<u>X</u>		
				<u>SW 2 - surf</u>	<u>2</u>									
				<u>SW 3 - surf</u>	<u>3</u>									
				<u>SW 4 - surf</u>	<u>4</u>									
				<u>SW 5 - surf</u>	<u>5</u>									
				<u>SW 6 - surf</u>	<u>6</u>									
				<u>SW 7 - surf</u>	<u>7</u>									
				<u>SW 8 - surf</u>	<u>8</u>									
				<u>SW 9 - surf</u>	<u>9</u>									
	<u>12/4/23</u>	<u>S</u>	<u>1</u>	<u>SW 10 - surf</u>	<u>10</u>							<u>X</u>		

Additional Instructions:
 I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torjaga</u>	Date <u>12/4/23</u>	Time	Received by: (Signature) <u>Michelle Geyke</u>	Date <u>12-5-23</u>	Time <u>1300</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature) <u>Michelle Geyke</u>	Date <u>12-5-23</u>	Time <u>1600</u>	Received by: (Signature) <u>Andrew Miso</u>	Date <u>12-5-23</u>	Time <u>1800</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Andrew Miso</u>	Date <u>12-5-23</u>	Time <u>2400</u>	Received by: (Signature) <u>Armentano</u>	Date <u>12/16/23</u>	Time <u>7:30</u>	AVG Temp °C <u>4</u>

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



Received by OCD: 3/17/2026 1:32:36 PM

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Released to Imaging: 3/18/2026 9:03:21 AM

Client: Westmount Energy
 Project: Westmount Sp. 4 IC
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:
 Report due by:

Bill To
 Attention: ENERGY STAFFING SERVICES
 Address: 2724 NW COUNTY RD
 City, State, Zip HOBBS, NM 88240
 Phone: 575-393-9048
 Email: NATALIE@ENERGYSTAFFINGLLC.COM
 BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
 Lab WO# E 312029 Job Number 200460001
 Analysis and Method
 DRO/DRO by 8015
 GRO/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Metals 6010
 Chloride 300.0
 BGDQC NM
 BGDQC TX
TAT
 1D 2D 3D Standard
 EPA Program
 CWA SDWA
 RCRA
 State
 NM CO UT AZ TX
 Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDQC NM	BGDQC TX	Remarks
	12/4/23	S	1	SW 11 - surf	11							X		
				SW 12 - surf	12									
				SW 13 - surf	13									
				SW 14 - surf	14									
				SW 15 - surf	15									
				SW 16 - surf	16									
				SW 17 - surf	17									
				SW 18 - surf	18									
				SW 19 - surf	19									
	12/4/23	S	1	SW 20 - surf	20							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torrey</u>	Date <u>12/4/23</u>	Time	Received by: (Signature) <u>Michelle Feyh</u>	Date <u>12-5-23</u>	Time <u>1300</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Feyh</u>	Date <u>12-5-23</u>	Time <u>1600</u>	Received by: (Signature) <u>Andrew Hoss</u>	Date <u>12-5-23</u>	Time <u>1800</u>	
Relinquished by: (Signature) <u>Andrew Hoss</u>	Date <u>12-5-23</u>	Time <u>2400</u>	Received by: (Signature) <u>Gmontano</u>	Date <u>12/4/23</u>	Time <u>7:30</u>	

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



Received by OCD: 3/17/2026 1:32:36 PM

Page 135 of 652

Client: Muel Energy
 Project: West Mount Spill K
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:
 Report due by:

Bill To
 Attention: ENERGY STAFFING SERVICES
 Address: 2724 NW COUNTY RD
 City, State, Zip HOBBS, NM 88240
 Phone: 575-393-9048
 Email: NATALIE@ENERGYSTAFFINGLLC.COM
 BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only		TAT			EPA Program												
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA										
E 312529	20046-0001		X														
Analysis and Method							RCRA										
State																	
<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							NM	CO	UT	AZ	TX	X					
NM	CO	UT	AZ	TX													
X																	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/4/23	S	1	SW21 - Surf	21							X		
	1	1	1	SW22 - Surf	22									
	1	1	1	SW23 - Surf	23									
	12/4/23	S	1	SW24 - Surf	24							X		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torres</u>	Date <u>12/4/23</u>	Time	Received by: (Signature) <u>Michelle Beyle</u>	Date <u>12-5-23</u>	Time <u>1300</u>	Received on ice: <u>Y</u> / N
Relinquished by: (Signature) <u>Michelle Beyle</u>	Date <u>12-5-23</u>	Time <u>1600</u>	Received by: (Signature) <u>Andrew Huber</u>	Date <u>12-5-23</u>	Time <u>1800</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Andrew Huber</u>	Date <u>12-5-23</u>	Time <u>2400</u>	Received by: (Signature) <u>Monterio</u>	Date <u>12/6/23</u>	Time <u>7:30</u>	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 12/6/2023 8:34:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 12/06/23 07:30	Work Order ID: E312029
Phone: (575) 390-6397	Date Logged In: 12/05/23 14:44	Logged In By: Jordan Montano
Email: Natalie@energystaffingllc.com	Due Date: 12/07/23 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Time sampled not provided on COC per client.

Project Manager not listed on COC.
Natalie Gladden

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill K

Work Order: E312032

Job Number: 20046-0001

Received: 12/6/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/7/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/7/23



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill K
Workorder: E312032
Date Received: 12/6/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/6/2023 7:30:00AM, under the Project Name: West Mount Spill K.

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/07/23 14:53
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 19- SURF	E312032-01A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SP 20 - SURF	E312032-02A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SP 21- SURF	E312032-03A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SP 22- SURF	E312032-04A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.
SP 23- SURF	E312032-05A	Soil	12/04/23	12/06/23	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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**SP 19- SURF
E312032-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Benzene	ND	0.0250	1	12/06/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/06/23	
Toluene	ND	0.0250	1	12/06/23	12/06/23	
o-Xylene	ND	0.0250	1	12/06/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		101 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349066
Chloride	45800	1000	50	12/06/23	12/06/23	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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SP 20 - SURF

E312032-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Benzene	ND	0.0250	1	12/06/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/06/23	
Toluene	ND	0.0250	1	12/06/23	12/06/23	
o-Xylene	ND	0.0250	1	12/06/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		96.4 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349066
Chloride	4560	40.0	2	12/06/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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SP 21- SURF
E312032-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Benzene	ND	0.0250	1	12/06/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/06/23	
Toluene	ND	0.0250	1	12/06/23	12/06/23	
o-Xylene	ND	0.0250	1	12/06/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		88.9 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349066
Chloride	11800	200	10	12/06/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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SP 22- SURF
E312032-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Benzene	ND	0.0250	1	12/06/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/06/23	
Toluene	ND	0.0250	1	12/06/23	12/06/23	
o-Xylene	ND	0.0250	1	12/06/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		95.0 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349066
Chloride	ND	20.0	1	12/06/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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SP 23- SURF
E312032-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Benzene	ND	0.0250	1	12/06/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/06/23	12/06/23	
Toluene	ND	0.0250	1	12/06/23	12/06/23	
o-Xylene	ND	0.0250	1	12/06/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/06/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2349055
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/06/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/06/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	12/06/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/06/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
<i>Surrogate: n-Nonane</i>		97.9 %	50-200	12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349066
Chloride	ND	20.0	1	12/06/23	12/06/23	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349055-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.518		0.500		104		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1		70-130		
Surrogate: Toluene-d8	0.544		0.500		109		70-130		

LCS (2349055-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	2.62	0.0250	2.50		105		70-130		
Ethylbenzene	2.62	0.0250	2.50		105		70-130		
Toluene	2.64	0.0250	2.50		106		70-130		
o-Xylene	2.54	0.0250	2.50		101		70-130		
p,m-Xylene	5.09	0.0500	5.00		102		70-130		
Total Xylenes	7.63	0.0250	7.50		102		70-130		
Surrogate: Bromofluorobenzene	0.515		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0		70-130		
Surrogate: Toluene-d8	0.537		0.500		107		70-130		

Matrix Spike (2349055-MS1)

Source: E312031-06

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	2.37	0.0250	2.50	ND	94.7		48-131		
Ethylbenzene	2.45	0.0250	2.50	ND	97.9		45-135		
Toluene	2.46	0.0250	2.50	ND	98.4		48-130		
o-Xylene	2.38	0.0250	2.50	ND	95.2		43-135		
p,m-Xylene	4.79	0.0500	5.00	ND	95.8		43-135		
Total Xylenes	7.17	0.0250	7.50	ND	95.6		43-135		
Surrogate: Bromofluorobenzene	0.516		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100		70-130		
Surrogate: Toluene-d8	0.536		0.500		107		70-130		

Matrix Spike Dup (2349055-MSD1)

Source: E312031-06

Prepared: 12/06/23 Analyzed: 12/06/23

Benzene	2.46	0.0250	2.50	ND	98.5		48-131	3.95	23
Ethylbenzene	2.52	0.0250	2.50	ND	101		45-135	3.00	27
Toluene	2.50	0.0250	2.50	ND	99.8		48-130	1.41	24
o-Xylene	2.46	0.0250	2.50	ND	98.5		43-135	3.39	27
p,m-Xylene	4.91	0.0500	5.00	ND	98.2		43-135	2.52	27
Total Xylenes	7.37	0.0250	7.50	ND	98.3		43-135	2.81	27
Surrogate: Bromofluorobenzene	0.519		0.500		104		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100		70-130		
Surrogate: Toluene-d8	0.528		0.500		106		70-130		



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349055-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2349055-BS2)

Prepared: 12/06/23 Analyzed: 12/06/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			

Matrix Spike (2349055-MS2)

Source: E312031-06

Prepared: 12/06/23 Analyzed: 12/07/23

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	97.9	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike Dup (2349055-MSD2)

Source: E312031-06

Prepared: 12/06/23 Analyzed: 12/07/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.8	70-130	3.28	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349060-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	50-200			

LCS (2349060-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

Matrix Spike (2349060-MS1)

Source: E311242-06

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

Matrix Spike Dup (2349060-MSD1)

Source: E311242-06

Prepared: 12/06/23 Analyzed: 12/06/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	5.12	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/7/2023 2:53:12PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349066-BLK1)

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride ND 20.0

LCS (2349066-BS1)

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride 249 20.0 250 99.4 90-110

Matrix Spike (2349066-MS1)

Source: E312027-02

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride 248 20.0 250 ND 99.3 80-120

Matrix Spike Dup (2349066-MSD1)

Source: E312027-02

Prepared: 12/06/23 Analyzed: 12/06/23

Chloride 251 20.0 250 ND 100 80-120 0.987 20

QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/07/23 14:53

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: <u>Macy Energy</u> Project: <u>Westmount Spill 1c</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only Lab WO# <u>E 312032</u> Job Number <u>20046-000</u>	TAT 1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/>	EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/4/23	S	1	Sp19 - surf	1							X		
				Sp20 - surf	2									
				Sp21 - surf	3									
				Sp22 - surf	4									
	12/1/23	S	1	Sp23 - surf	5							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torjya</u>	Date <u>12/4/23</u>	Time	Received by: (Signature) <u>Michelle Kemp</u>	Date <u>12-5-23</u>	Time <u>1300</u>	Received on ice: <u>Y/N</u>
Relinquished by: (Signature) <u>Michelle Kemp</u>	Date <u>12-5-23</u>	Time <u>1600</u>	Received by: (Signature) <u>Andrew Hasso</u>	Date <u>12-5-23</u>	Time <u>1800</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Andrew Hasso</u>	Date <u>12-5-23</u>	Time <u>2400</u>	Received by: (Signature) <u>Ormenten</u>	Date <u>12/4/23</u>	Time <u>7:30</u>	AVG Temp °C <u>4</u>

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

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



Envirotech Analytical Laboratory

Printed: 12/6/2023 8:36:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 12/06/23 07:30	Work Order ID: E312032
Phone: (575) 390-6397	Date Logged In: 12/05/23 14:47	Logged In By: Jordan Montano
Email: Natalie@energystaffingllc.com	Due Date: 12/07/23 17:00 (1 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

Time sampled not provided on COC per client.

Project Manager not listed on COC.
Natalie Gladden

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
 - 8. If yes, was cooler received in good condition? Yes
 - 9. Was the sample(s) received intact, i.e., not broken? Yes
 - 10. Were custody/security seals present? No
 - 11. If yes, were custody/security seals intact? NA
 - 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E407224

Job Number: 20046-0001

Received: 7/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/30/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 7/30/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E407224
Date Received: 7/29/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/29/2024 5:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/30/24 12:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. 1 - 14'	E407224-01A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SP. 2 - 14'	E407224-02A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SP. 3 - 4'	E407224-03A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SP. 4 - 4'	E407224-04A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SP. 5 - 14'	E407224-05A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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SP. 1 - 14'
E407224-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431006	
Benzene	ND	0.0250	1	07/29/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/29/24	
Toluene	ND	0.0250	1	07/29/24	07/29/24	
o-Xylene	ND	0.0250	1	07/29/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2431001	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/29/24	
<i>Surrogate: n-Nonane</i>		99.0 %	50-200	07/29/24	07/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431009	
Chloride	90.3	20.0	1	07/29/24	07/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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SP. 2 - 14'

E407224-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Benzene	ND	0.0250	1	07/29/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/29/24	
Toluene	ND	0.0250	1	07/29/24	07/29/24	
o-Xylene	ND	0.0250	1	07/29/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.1 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431001
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/29/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	07/29/24	07/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2431009
Chloride	198	20.0	1	07/29/24	07/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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SP. 3 - 4'
E407224-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Benzene	ND	0.0250	1	07/29/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/29/24	
Toluene	ND	0.0250	1	07/29/24	07/29/24	
o-Xylene	ND	0.0250	1	07/29/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.8 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431001
Diesel Range Organics (C10-C28)	769	125	5	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	1470	250	5	07/29/24	07/29/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	07/29/24	07/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2431009
Chloride	442	20.0	1	07/29/24	07/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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SP. 4 - 4'

E407224-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Benzene	ND	0.0250	1	07/29/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/29/24	
Toluene	ND	0.0250	1	07/29/24	07/29/24	
o-Xylene	ND	0.0250	1	07/29/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431001
Diesel Range Organics (C10-C28)	60.2	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	61.6	50.0	1	07/29/24	07/29/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	07/29/24	07/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2431009
Chloride	230	40.0	2	07/29/24	07/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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SP. 5 - 14'

E407224-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Benzene	ND	0.0250	1	07/29/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/29/24	
Toluene	ND	0.0250	1	07/29/24	07/29/24	
o-Xylene	ND	0.0250	1	07/29/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.6 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431006
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/29/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431001
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/29/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/29/24	07/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2431009
Chloride	211	20.0	1	07/29/24	07/29/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431006-BLK1)

Prepared: 07/29/24 Analyzed: 07/29/24

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

LCS (2431006-BS1)

Prepared: 07/29/24 Analyzed: 07/29/24

Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
o-Xylene	4.86	0.0250	5.00		97.2	70-130			
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

LCS Dup (2431006-BSD1)

Prepared: 07/29/24 Analyzed: 07/29/24

Benzene	5.00	0.0250	5.00		100	70-130	1.03	20	
Ethylbenzene	4.73	0.0250	5.00		94.7	70-130	0.743	20	
Toluene	4.95	0.0250	5.00		99.0	70-130	0.952	20	
o-Xylene	4.83	0.0250	5.00		96.7	70-130	0.511	20	
p,m-Xylene	9.76	0.0500	10.0		97.6	70-130	0.657	20	
Total Xylenes	14.6	0.0250	15.0		97.3	70-130	0.609	20	
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431006-BLK1)

Prepared: 07/29/24 Analyzed: 07/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

LCS (2431006-BS2)

Prepared: 07/29/24 Analyzed: 07/29/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			

LCS Dup (2431006-BSD2)

Prepared: 07/29/24 Analyzed: 07/29/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.7	70-130	14.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.62		8.00		108	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 7/30/2024 12:10:21PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431001-BLK1)

Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.1		50.0		116	50-200			

LCS (2431001-BS1)

Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			

Matrix Spike (2431001-MS1)

Source: E407223-05

Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2431001-MSD1)

Source: E407223-05

Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.679	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/30/2024 12:10:21PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431009-BLK1)

Prepared: 07/29/24 Analyzed: 07/29/24

Chloride	ND	20.0							
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LCS (2431009-BS1)

Prepared: 07/29/24 Analyzed: 07/29/24

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2431009-MS1)

Source: E407221-01

Prepared: 07/29/24 Analyzed: 07/29/24

Chloride	257	20.0	250	ND	103	80-120			
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Matrix Spike Dup (2431009-MSD1)

Source: E407221-01

Prepared: 07/29/24 Analyzed: 07/29/24

Chloride	247	20.0	250	ND	98.6	80-120	3.98	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/30/24 12:10

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: <u>Mack Energy</u>	Bill To	Lab Use Only	TAT			EPA Program						
Project: <u>West Marat K</u>	Attention: ENERGY STAFFING SERVICES	Lab WO# <u>E407224</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA	SDWA			
Project Manager:	Address: 2724 NW COUNTY RD	Analysis and Method						RCRA				
Address:	City, State, Zip <u>HOBBS, NM 88240</u>	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8280	Metals 6010	Chloride 300.0	State				
City, State, Zip	Phone: 575-393-9048							NM	CO	UT	AZ	TX
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM							Remarks				
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM											
Report due by:												

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8280	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC IX	Remarks
	07/25	S	1	SP. 1-14'	1							✓		
	07/25	S	1	SP. 2-14'	2							✓		
	07/25	S	1	SP. 3-4'	3							✓		
	07/25	S	1	SP. 4-4'	4							✓		
	07/25	S	1	SP. 5-14'	5							✓		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>S. Perez</u>	Date <u>07/25/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-26-24</u>	Time <u>1237</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-26-24</u>	Time <u>1530</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7.26.24</u>	Time <u>1730</u>	Received on ice: <u>Y/N</u>
Relinquished by: (Signature) <u>Andrew Moss</u>	Date <u>7.26.24</u>	Time <u>1345</u>	Received by: (Signature) <u>Kaylyn R Hall</u>	Date <u>7-29-24</u>	Time <u>0500</u>	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						

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

Envirotech Analytical Laboratory

Printed: 7/29/2024 10:29:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/29/24 05:00	Work Order ID: E407224
Phone: (575) 390-6397	Date Logged In: 07/26/24 16:37	Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com	Due Date: 07/30/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E407232

Job Number: 20046-0001

Received: 7/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 7/31/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E407232
Date Received: 7/30/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/30/2024 5:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/31/24 12:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. 12-4'	E407232-01A	Soil	07/29/24	07/30/24	Glass Jar, 2 oz.
SP. 13-4'	E407232-02A	Soil	07/29/24	07/30/24	Glass Jar, 2 oz.
SP. 14-4'	E407232-03A	Soil	07/29/24	07/30/24	Glass Jar, 2 oz.
SP. 15-16'	E407232-04A	Soil	07/29/24	07/30/24	Glass Jar, 2 oz.
SP. 16-4'	E407232-05A	Soil	07/29/24	07/30/24	Glass Jar, 2 oz.
SP. 17-8'	E407232-06A	Soil	07/29/24	07/30/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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SP. 12-4'
E407232-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.8 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	ND	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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SP. 13-4'

E407232-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.4 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		99.4 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	257	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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SP. 14-4'
E407232-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.1 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		93.9 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	ND	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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SP. 15-16'

E407232-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	413	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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SP. 16-4'
E407232-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	275	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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SP. 17-8'

E407232-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		99.1 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	272	20.0	1	07/30/24	07/30/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431037-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.4	70-130			

LCS (2431037-BS1)

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			

Matrix Spike (2431037-MS1)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.39	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.18	0.0250	5.00	ND	104	61-133			
Toluene	5.40	0.0250	5.00	ND	108	61-130			
o-Xylene	5.28	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.2	70-130			

Matrix Spike Dup (2431037-MSD1)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.36	0.0250	5.00	ND	107	54-133	0.558	20	
Ethylbenzene	5.18	0.0250	5.00	ND	104	61-133	0.0975	20	
Toluene	5.38	0.0250	5.00	ND	108	61-130	0.389	20	
o-Xylene	5.28	0.0250	5.00	ND	106	63-131	0.119	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	0.0338	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	0.0169	20	
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:28:44PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431037-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.41		8.00		105	70-130			

LCS (2431037-BS2)

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			

Matrix Spike (2431037-MS2)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

Matrix Spike Dup (2431037-MSD2)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 7/31/2024 12:28:44PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431032-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	50-200			

LCS (2431032-BS1)

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: <i>n</i> -Nonane	52.1		50.0		104	50-200			

Matrix Spike (2431032-MS1)

Source: E407234-02

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: <i>n</i> -Nonane	53.7		50.0		107	50-200			

Matrix Spike Dup (2431032-MSD1)

Source: E407234-02

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	1.55	20	
Surrogate: <i>n</i> -Nonane	53.1		50.0		106	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 7/31/2024 12:28:44PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431043-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride	ND	20.0							
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LCS (2431043-BS1)

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride	251	20.0	250		100	90-110			
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Matrix Spike (2431043-MS1)

Source: E407232-02

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride	524	20.0	250	257	107	80-120			
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Matrix Spike Dup (2431043-MSD1)

Source: E407232-02

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride	524	20.0	250	257	107	80-120	0.0632	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/31/24 12:28

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: Mack Energy	Bill To	Lab Use Only		TAT			EPA Program		
Project: West Mount k	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager:	Address: 2724 NW COUNTY RD	E407232	20046-0001		<input checked="" type="checkbox"/>				
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8280	Metals 6010	Chloride 30010	BGDOC NM	BGDOC IX
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM	State							
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM	<input checked="" type="checkbox"/>							
Report due by:		Remarks							

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8280	Metals 6010	Chloride 30010	BGDOC NM	BGDOC IX	Remarks
	07/29	S	1	SP. 12-4'	1							<input checked="" type="checkbox"/>		
	↓	↓	↓	SP. 13-4'	2							<input checked="" type="checkbox"/>		
	↓	↓	↓	SP. 14-4'	3							<input checked="" type="checkbox"/>		
	↓	↓	↓	SP. 15-14'	4							<input checked="" type="checkbox"/>		
	↓	↓	↓	SP. 16-4'	5							<input checked="" type="checkbox"/>		
	07/29	S	1	SP. 17-8'	6							<input checked="" type="checkbox"/>		

Additional Instructions:

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

Sampled by: **Sandra Perez**

Relinquished by: (Signature) **S. Perez** Date: **07/29/24** Time: **1340** Received by: (Signature) **Michelle Gonzales** Date: **7-29-24** Time: **1700**

Relinquished by: (Signature) **Michelle Gonzales** Date: **7-29-24** Time: **1700** Received by: (Signature) **J. H.** Date: **7-29-24** Time: **1700**

Relinquished by: (Signature) **J. H.** Date: **7-29-24** Time: **2145** Received by: (Signature) **Kayla R Hill** Date: **7-30-24** Time: **0500**

Received on ice: Y N

AVG Temp °C: **4**

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

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

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

Envirotech Analytical Laboratory

Printed: 7/30/2024 11:04:30AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 07/30/24 05:00 Work Order ID: E407232
Phone: (575) 390-6397 Date Logged In: 07/29/24 16:06 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 07/31/24 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E407234

Job Number: 20046-0001

Received: 7/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 7/31/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E407234
Date Received: 7/30/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/30/2024 5:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/31/24 12:31
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp. 6-12'	E407234-01A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
Sp. 7-12'	E407234-02A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
Sp. 8-4'	E407234-03A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
Sp. 9-6'	E407234-04A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
Sp. 10-6'	E407234-05A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
Sp. 11-6'	E407234-06A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Sp. 6-12'
E407234-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.7 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	28.8	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	228	40.0	2	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Sp. 7-12'
E407234-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431037	
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.1 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2431032	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2431043	
Chloride	319	20.0	1	07/30/24	07/30/24	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Sp. 8-4'

E407234-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431037	
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.3 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2431032	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		99.1 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2431043	
Chloride	284	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Sp. 9-6'

E407234-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/30/24	
Toluene	ND	0.0250	1	07/30/24	07/30/24	
o-Xylene	ND	0.0250	1	07/30/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/30/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	319	40.0	2	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Sp. 10-6'

E407234-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.5 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		99.5 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	358	20.0	1	07/30/24	07/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Sp. 11-6'

E407234-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.7 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2431037
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2431032
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2431043
Chloride	328	20.0	1	07/30/24	07/30/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431037-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.4	70-130			

LCS (2431037-BS1)

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			

Matrix Spike (2431037-MS1)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.39	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.18	0.0250	5.00	ND	104	61-133			
Toluene	5.40	0.0250	5.00	ND	108	61-130			
o-Xylene	5.28	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.2	70-130			

Matrix Spike Dup (2431037-MSD1)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Benzene	5.36	0.0250	5.00	ND	107	54-133	0.558	20	
Ethylbenzene	5.18	0.0250	5.00	ND	104	61-133	0.0975	20	
Toluene	5.38	0.0250	5.00	ND	108	61-130	0.389	20	
o-Xylene	5.28	0.0250	5.00	ND	106	63-131	0.119	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	0.0338	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	0.0169	20	
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2024 12:31:05PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431037-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.41		8.00		105	70-130			

LCS (2431037-BS2)

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			

Matrix Spike (2431037-MS2)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

Matrix Spike Dup (2431037-MSD2)

Source: E407232-04

Prepared: 07/30/24 Analyzed: 07/30/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 7/31/2024 12:31:05PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431032-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			

LCS (2431032-BS1)

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike (2431032-MS1)

Source: E407234-02

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike Dup (2431032-MSD1)

Source: E407234-02

Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	1.55	20	
Surrogate: n-Nonane	53.1		50.0		106	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 7/31/2024 12:31:05PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431043-BLK1)

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride ND 20.0

LCS (2431043-BS1)

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride 251 20.0 250 100 90-110

Matrix Spike (2431043-MS1)

Source: E407232-02

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride 524 20.0 250 257 107 80-120

Matrix Spike Dup (2431043-MSD1)

Source: E407232-02

Prepared: 07/30/24 Analyzed: 07/30/24

Chloride 524 20.0 250 257 107 80-120 0.0632 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 K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/31/24 12:31

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: MACK Energy		Bill To		Lab Use Only			TAT			EPA Program		
Project: West Mount K		Attention: ENERGY STAFFING SERVICES		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: 2724 NW COUNTY RD		E407234	20046-0001			<input checked="" type="checkbox"/>				
Address:		City, State, Zip HOBBS, NM 88240		Analysis and Method								
City, State, Zip		Phone: 575-393-9048		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8280	Metals 8030	Chloride 800.0	BGDOC NM	BGDOC IX	Remarks
Phone:		Email: NATALIE@ENERGYSTAFFINGLLC.COM										
Email:		BRITTNEY@ENERGYSTAFFINGLLC.COM										
Report due by:												

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8280	Metals 8030	Chloride 800.0	BGDOC NM	BGDOC IX	Remarks
	07/20	S	1	Sp. 6-12'	1							<input checked="" type="checkbox"/>		
	07/20	S	1	Sp. 7-12'	2							<input checked="" type="checkbox"/>		
	07/20	S	1	Sp. 8-4'	3							<input checked="" type="checkbox"/>		
	07/20	S	1	Sp. 9-6'	4							<input checked="" type="checkbox"/>		
	07/20	S	1	Sp. 10-6'	5							<input checked="" type="checkbox"/>		
	07/20	S	1	Sp. 11-6'	6							<input checked="" type="checkbox"/>		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature) S. Perez	Date 07/20/24	Time	Received by: (Signature) Michelle Gonzales	Date 7-29-24	Time 1340	Lab Use Only Received on ice: O / N
Relinquished by: (Signature) Michelle Gonzales	Date 7-29-24	Time 1700	Received by: (Signature) J.H.	Date 7-29-24	Time 1700	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) J.H.	Date 7-29-24	Time 2145	Received by: (Signature) Kaylyn & Hall	Date 7-30-24	Time 0500	AVG Temp °C 4

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

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

Envirotech Analytical Laboratory

Printed: 7/30/2024 11:10:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 07/30/24 05:00 Work Order ID: E407234
Phone: (575) 390-6397 Date Logged In: 07/29/24 16:21 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 07/31/24 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E408012

Job Number: 20046-0001

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/5/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount K
Workorder: E408012
Date Received: 8/2/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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Laboratory Director
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 08/05/24 13:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP3-8'	E408012-01A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
SP4-8'	E408012-02A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:49:51PM
--	--	--

SP3-8'

E408012-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2431120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		120 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2431122
Chloride	ND	200	10	08/02/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:49:51PM
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SP4-8'

E408012-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		97.5 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		97.5 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.9 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431122
Chloride	ND	200	10	08/02/24	08/05/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:49:51PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431129-BLK1)

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2431129-BS1)

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.26	0.0250	2.50		90.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.7	70-130			
Toluene	2.31	0.0250	2.50		92.4	70-130			
o-Xylene	2.24	0.0250	2.50		89.5	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.81	0.0250	7.50		90.8	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike (2431129-MS1)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.26	0.0250	2.50	ND	90.5	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135			
Toluene	2.31	0.0250	2.50	ND	92.4	48-130			
o-Xylene	2.26	0.0250	2.50	ND	90.3	43-135			
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135			
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2431129-MSD1)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.25	0.0250	2.50	ND	89.9	48-131	0.709	23	
Ethylbenzene	2.27	0.0250	2.50	ND	91.0	45-135	2.17	27	
Toluene	2.29	0.0250	2.50	ND	91.6	48-130	0.870	24	
o-Xylene	2.20	0.0250	2.50	ND	88.1	43-135	2.51	27	
p,m-Xylene	4.43	0.0500	5.00	ND	88.7	43-135	3.01	27	
Total Xylenes	6.64	0.0250	7.50	ND	88.5	43-135	2.84	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:49:51PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431129-BLK1)

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2431129-BS2)

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike (2431129-MS2)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.7	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2431129-MSD2)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	14.4	20	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 8/5/2024 1:49:51PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431120-BLK1)

Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.2		50.0		124	50-200			

LCS (2431120-BS1)

Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: n-Nonane	61.0		50.0		122	50-200			

LCS Dup (2431120-BSD1)

Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	295	25.0	250		118	38-132	0.227	20	
Surrogate: n-Nonane	61.3		50.0		123	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 8/5/2024 1:49:51PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2431122-BLK1)

Prepared: 08/02/24 Analyzed: 08/02/24

Chloride	ND	20.0							
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LCS (2431122-BS1)

Prepared: 08/02/24 Analyzed: 08/02/24

Chloride	253	20.0	250		101	90-110			
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LCS Dup (2431122-BSD1)

Prepared: 08/02/24 Analyzed: 08/02/24

Chloride	255	20.0	250		102	90-110	0.832	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/05/24 13:49

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

Chain of Custody

Client: MACK ENERGY				Bill To				Lab Use Only				TAT			EPA Program						
Project: WEST MOUNT K				Attention: ENERGY STAFFING SERVICES				Lab WO# E408012		Job Number 200460001		1D	2D	3D	Standard	CWA	SDWA				
Project Manager:				Address: 2724 NW COUNTY RD				Analysis and Method										RCRA			
Address:				City, State, Zip HOBBS, NM 88240				DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 390.0 BGDOC: NM SGDOC: IX										State			
City, State, Zip				Phone: 575-393-9048														NM		CO	
Phone:				Email: NATALIE@ENERGYSTAFFINGLLC.COM				Remarks										<input checked="" type="checkbox"/>			
Email:				BRITTNEY@ENERGYSTAFFINGLLC.COM														<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Report due by:																					
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number																
	7/31/24	S	1	SP3-8'	1																
	7/31/24	S	1	SP4-8'	2																
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Sampled by: M. RIVERA							Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days				
Relinquished by: (Signature) M. Rivera			Date: 7/31/24	Time:	Received by: (Signature) Michelle Gonzales			Date: 8-1-24	Time: 1315	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
Relinquished by: (Signature) Michelle Gonzales			Date: 8-1-24	Time: 1650	Received by: (Signature) Camden Briggs			Date: 8-1-24	Time: 1730	T1 _____ T2 _____ T3 _____											
Relinquished by: (Signature) Camden Briggs			Date: 8-1-24	Time: 23:59	Received by: (Signature) [Signature]			Date: 8/2/24	Time: 800	AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Envirotech Analytical Laboratory

Printed: 8/2/2024 11:47:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 08/02/24 08:00	Work Order ID: E408012
Phone: (575) 390-6397	Date Logged In: 08/01/24 15:32	Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com	Due Date: 08/05/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

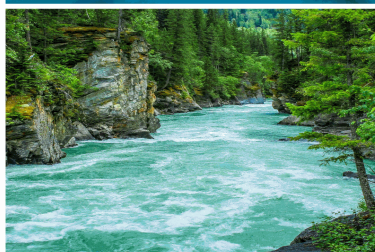
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E408014

Job Number: 20046-0001

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/5/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount K
Workorder: E408014
Date Received: 8/2/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

Walter Hinchman
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Client Representative
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 08/05/24 13:44
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 18-4'	E408014-01A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
SP 19-6'	E408014-02A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
SP 20-4'	E408014-03A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
SP 21-4'	E408014-04A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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SP 18-4'

E408014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2431120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2431122
Chloride	36.3	20.0	1	08/02/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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SP 19-6'
E408014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		97.9 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		97.9 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		124 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431122
Chloride	40.4	20.0	1	08/02/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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SP 20-4'
E408014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		98.0 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		98.0 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.0 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		127 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431122
Chloride	241	20.0	1	08/02/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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SP 21-4'

E408014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		99.0 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: Bromofluorobenzene</i>		99.0 %	70-130	08/02/24	08/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	08/02/24	08/02/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2431120
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2431122
Chloride	242	20.0	1	08/02/24	08/05/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431129-BLK1)

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2431129-BS1)

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.26	0.0250	2.50		90.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.7	70-130			
Toluene	2.31	0.0250	2.50		92.4	70-130			
o-Xylene	2.24	0.0250	2.50		89.5	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.81	0.0250	7.50		90.8	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike (2431129-MS1)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.26	0.0250	2.50	ND	90.5	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135			
Toluene	2.31	0.0250	2.50	ND	92.4	48-130			
o-Xylene	2.26	0.0250	2.50	ND	90.3	43-135			
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135			
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2431129-MSD1)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.25	0.0250	2.50	ND	89.9	48-131	0.709	23	
Ethylbenzene	2.27	0.0250	2.50	ND	91.0	45-135	2.17	27	
Toluene	2.29	0.0250	2.50	ND	91.6	48-130	0.870	24	
o-Xylene	2.20	0.0250	2.50	ND	88.1	43-135	2.51	27	
p,m-Xylene	4.43	0.0500	5.00	ND	88.7	43-135	3.01	27	
Total Xylenes	6.64	0.0250	7.50	ND	88.5	43-135	2.84	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431129-BLK1)

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2431129-BS2)

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike (2431129-MS2)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.7	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2431129-MSD2)

Source: E408014-04

Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	14.4	20	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 8/5/2024 1:44:14PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431120-BLK1)

Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	62.2		50.0		124	50-200			

LCS (2431120-BS1)

Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: <i>n</i> -Nonane	61.0		50.0		122	50-200			

LCS Dup (2431120-BSD1)

Prepared: 08/01/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	295	25.0	250		118	38-132	0.227	20	
Surrogate: <i>n</i> -Nonane	61.3		50.0		123	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/5/2024 1:44:14PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431122-BLK1)

Prepared: 08/02/24 Analyzed: 08/02/24

Chloride ND 20.0

LCS (2431122-BS1)

Prepared: 08/02/24 Analyzed: 08/02/24

Chloride 253 20.0 250 101 90-110

LCS Dup (2431122-BSD1)

Prepared: 08/02/24 Analyzed: 08/02/24

Chloride 255 20.0 250 102 90-110 0.832 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 K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/05/24 13:44

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: <u>Mrock ENERGY</u> Project: <u>WEST MOUNT K</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:				Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM				Lab Use Only Lab WO# <u>E408014</u> Job Number <u>200400001</u> Analysis and Method				TAT 1D 2D 3D Standard			EPA Program CWA SDWA RCRA	
								State NM CO UT AZ TX <input checked="" type="checkbox"/>			Remarks					
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGOC NM	BGOC TX			
	7/31/24	S	1	SP18-4'	1							X				
		S	S	SP19-6'	2											
		S	S	SP20-4'	3											
	7/31/24	S	1	SP21-4'	4							X				
Additional Instructions:																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Sampled by: <u>S. DEUEL</u>																
Relinquished by: (Signature) <u>[Signature]</u>			Date <u>7/31/24</u>		Time		Received by: (Signature) <u>Michelle Gonzales</u>			Date <u>8-1-24</u>		Time <u>1315</u>			Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Relinquished by: (Signature) <u>Michelle Gonzales</u>			Date <u>8-1-24</u>		Time <u>1650</u>		Received by: (Signature) <u>Carolee Briggs</u>			Date <u>8-1-24</u>		Time <u>1730</u>			T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature) <u>Carolee Briggs</u>			Date <u>8-1-24</u>		Time <u>23:59</u>		Received by: (Signature) <u>[Signature]</u>			Date <u>8/2/24</u>		Time <u>800</u>			AVG Temp °C <u>4</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Envirotech Analytical Laboratory

Printed: 8/2/2024 11:51:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 08/02/24 08:00 Work Order ID: E408014
Phone: (575) 390-6397 Date Logged In: 08/01/24 15:50 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 08/05/24 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

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

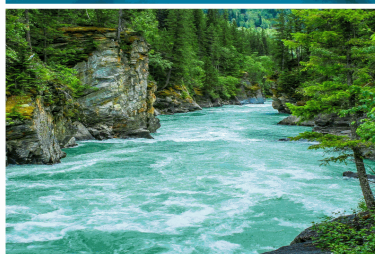
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill K

Work Order: E408024

Job Number: 20046-0001

Received: 8/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/6/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount Spill K
Workorder: E408024
Date Received: 8/5/2024 9:15:10AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/5/2024 9:15:10AM, under the Project Name: West Mount Spill K.

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Mack Energy
7 W. Compress Road
Artesia NM, 88210

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

Reported:
08/06/24 11:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 - 2	E408024-01A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW2 - 2	E408024-02A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW3 - 2	E408024-03A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW4 - 2	E408024-04A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW5 - 2	E408024-05A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW6 - 2	E408024-06A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW7 - 2	E408024-07A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW8 - 2	E408024-08A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW9 - 2	E408024-09A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW10 - 2	E408024-10A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW11 - 2	E408024-11A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW12 - 2	E408024-12A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW13 - 2	E408024-13A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
SW14 - 4	E408024-14A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW1 - 2

E408024-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.5 %	70-130		08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	81.7	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW2 - 2

E408024-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.8 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		99.1 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	41.7	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW3 - 2

E408024-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		98.0 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	229	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW4 - 2

E408024-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.4 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2432005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2432006
Chloride	113	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW5 - 2

E408024-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.6 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	117	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW6 - 2

E408024-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.8 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2432005	
Diesel Range Organics (C10-C28)	116	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	367	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	166	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW7 - 2

E408024-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.4 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	236	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW8 - 2

E408024-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.3 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	466	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW9 - 2

E408024-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.0 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	44.5	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW10 - 2

E408024-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.1 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2432005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/05/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	08/05/24	08/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2432006
Chloride	22.5	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW11 - 2

E408024-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.6 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	08/05/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	ND	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW12 - 2

E408024-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.6 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2432005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	08/05/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2432006
Chloride	ND	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW13 - 2

E408024-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.5 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	08/05/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2432006	
Chloride	ND	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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SW14 - 4

E408024-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.0 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	08/05/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432006
Chloride	ND	20.0	1	08/05/24	08/05/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432002-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

LCS (2432002-BS1)

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.3	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.88	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.2	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

Matrix Spike (2432002-MS1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	5.57	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.21	0.0250	5.00	ND	104	61-133			
Toluene	5.48	0.0250	5.00	ND	110	61-130			
o-Xylene	5.28	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.2	70-130			

Matrix Spike Dup (2432002-MSD1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	5.43	0.0250	5.00	ND	109	54-133	2.64	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	2.42	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	2.55	20	
o-Xylene	5.15	0.0250	5.00	ND	103	63-131	2.58	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	2.43	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	2.48	20	
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2432002-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		8.00		104	70-130			

LCS (2432002-BS2)

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			

Matrix Spike (2432002-MS2)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			

Matrix Spike Dup (2432002-MSD2)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	0.823	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432005-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.5	50-200			

LCS (2432005-BS1)

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: <i>n</i> -Nonane	29.2		50.0		58.5	50-200			

Matrix Spike (2432005-MS1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	386	25.0	250	116	108	38-132			
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2432005-MSD1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	389	25.0	250	116	109	38-132	0.776	20	
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:48:04AM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432006-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride	ND	20.0							
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LCS (2432006-BS1)

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride	247	20.0	250		98.9	90-110			
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Matrix Spike (2432006-MS1)

Source: E408024-03

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride	483	20.0	250	229	102	80-120			
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Matrix Spike Dup (2432006-MSD1)

Source: E408024-03

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride	483	20.0	250	229	102	80-120	0.00290	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/06/24 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.



Client: <u>Mall Energy</u>	Bill To	Lab Use Only		TAT			EPA Program		
Project: <u>uscmo nA spill 6</u>	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager:	Address: 2724 NW COUNTY RD	<u>E 408024</u>	<u>20046-0001</u>		<input checked="" type="checkbox"/>				
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							RCRA
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State	
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM							NM	CO
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM							<input checked="" type="checkbox"/>	UT
Report due by:									AZ
									TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	8/1/24	S	1	SW1-2	1							<input checked="" type="checkbox"/>		
				SW2-2	2									
				SW3-2	3									
				SW4-2	4									
				SW5-2	5									
				SW6-2	6									
				SW7-2	7									
				SW8-2	8									
				SW9-2	9									
	8/1/24	S	1	SW10-2	10							<input checked="" type="checkbox"/>		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: Andy Long
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Long</u>	Date <u>8/1/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>8.2.24</u>	Time <u>1245</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>8.2.24</u>	Time <u>1545</u>	Received by: (Signature) <u>Andrew Hobbs</u>	Date <u>8.2.24</u>	Time <u>1730</u>	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <u>Andrew Hobbs</u>	Date <u>8.2.24</u>	Time <u>2330</u>	Received by: (Signature) <u>Raina Schwam</u>	Date <u>8/2/24</u>	Time <u>9:15</u>	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this CCC. The liability of the laboratory is limited to the amount paid for on the report.



Client: <u>Mexic Energy</u>	Bill To	Lab Use Only	TAT			EPA Program			
Project: <u>Westmount Spill K</u>	Attention: <u>ENERGY STAFFING SERVICES</u>	Lab WO# <u>E408024</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA	SDWA
Project Manager:	Address: <u>2724 NW COUNTY RD</u>	Analysis and Method							RCRA
Address:	City, State, Zip <u>HOBBS, NM 88240</u>								
City, State, Zip	Phone: <u>575-393-9048</u>								
Phone:	Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>								
Email:	Email: <u>BRITNEY@ENERGYSTAFFINGLLC.COM</u>								
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	8/1/24	S	1	SW11-2	11							X		
				SW12-2	12									
				SW13-2	13									
	8/1/24	S	1	SW14-4	14							X		

Additional Instructions:

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

Sampled by: Andy Torga

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 6 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torga</u>	Date <u>8/1/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>8-2-24</u>	Time <u>1245</u>	Lab Use Only Received on ice: <u>Y</u> N
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>8-2-24</u>	Time <u>1545</u>	Received by: (Signature) <u>Chadwick Hobbs</u>	Date <u>8-2-24</u>	Time <u>1730</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Chadwick Hobbs</u>	Date <u>8-2-24</u>	Time <u>2330</u>	Received by: (Signature) <u>Raina Schwanz</u>	Date <u>8/5/24</u>	Time <u>9:15</u>	AVG Temp °C <u>4</u>

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

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

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



Envirotech Analytical Laboratory

Printed: 8/5/2024 10:41:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 08/05/24 09:15 Work Order ID: E408024
Phone: (575) 390-6397 Date Logged In: 08/02/24 15:57 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 08/06/24 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

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

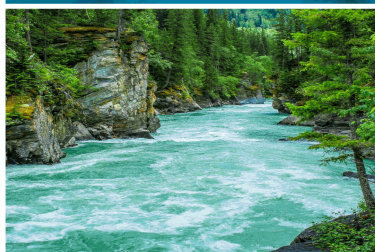
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill K

Work Order: E408025

Job Number: 20046-0001

Received: 8/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/6/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount Spill K
Workorder: E408025
Date Received: 8/5/2024 9:15:10AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/5/2024 9:15:10AM, under the Project Name: West Mount Spill K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 08/06/24 11:53
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp22-4	E408025-01A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.
Sp23-6	E408025-02A	Soil	08/01/24	08/05/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:53:18AM
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Sp22-4

E408025-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.9 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432005	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	08/05/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432003	
Chloride	414	20.0	1	08/05/24	08/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:53:18AM
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Sp23-6

E408025-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Benzene	ND	0.0250	1	08/05/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/05/24	08/05/24	
Toluene	ND	0.0250	1	08/05/24	08/05/24	
o-Xylene	ND	0.0250	1	08/05/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/05/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/05/24	08/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.2 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2432002
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/05/24	08/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	08/05/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2432005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/24	08/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/24	08/06/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	08/05/24	08/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2432003
Chloride	465	20.0	1	08/05/24	08/05/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:53:18AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432002-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

LCS (2432002-BS1)

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.3	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.88	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.2	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

Matrix Spike (2432002-MS1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	5.57	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.21	0.0250	5.00	ND	104	61-133			
Toluene	5.48	0.0250	5.00	ND	110	61-130			
o-Xylene	5.28	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.2	70-130			

Matrix Spike Dup (2432002-MSD1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Benzene	5.43	0.0250	5.00	ND	109	54-133	2.64	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	2.42	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	2.55	20	
o-Xylene	5.15	0.0250	5.00	ND	103	63-131	2.58	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	2.43	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	2.48	20	
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill K	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/6/2024 11:53:18AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2432002-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		8.00		104	70-130			

LCS (2432002-BS2)

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			

Matrix Spike (2432002-MS2)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			

Matrix Spike Dup (2432002-MSD2)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	0.823	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:53:18AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432005-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.5	50-200			

LCS (2432005-BS1)

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: <i>n</i> -Nonane	29.2		50.0		58.5	50-200			

Matrix Spike (2432005-MS1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	386	25.0	250	116	108	38-132			
Surrogate: <i>n</i> -Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2432005-MSD1)

Source: E408024-06

Prepared: 08/05/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	389	25.0	250	116	109	38-132	0.776	20	
Surrogate: <i>n</i> -Nonane	51.2		50.0		102	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/6/2024 11:53:18AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432003-BLK1)

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride ND 20.0

LCS (2432003-BS1)

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride 248 20.0 250 99.2 90-110

Matrix Spike (2432003-MS1)

Source: E408023-03

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride 282 20.0 250 27.1 102 80-120

Matrix Spike Dup (2432003-MSD1)

Source: E408023-03

Prepared: 08/05/24 Analyzed: 08/05/24

Chloride 280 20.0 250 27.1 101 80-120 0.837 20

QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/06/24 11:53

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mack Energy</u>	Bill To	Lab Use Only	TAT			EPA Program			
Project: <u>Westmount spill K</u>	Attention: <u>ENERGY STAFFING SERVICES</u>	Lab WO# <u>E408025</u>	Job Number <u>20046-001</u>	1D	2D	3D	Standard	CWA	SDWA
Project Manager:	Address: <u>2724 NW COUNTY RD</u>	Analysis and Method							RCRA
Address:	City, State, Zip <u>HOBBS, NM 88240</u>	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State	
City, State, Zip	Phone: <u>575-393-9048</u>							NM	CO
Phone:	Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>							UT	AZ
Email:	<u>BRITTNEY@ENERGYSTAFFINGLLC.COM</u>							TX	
Report due by:								Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	8/1/24	S	1	SP22-4	1							X		
	8/1/24	S	1	SP23-6	2							X		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torger</u>	Date <u>8/1/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>8-2-24</u>	Time <u>1245</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>8-2-24</u>	Time <u>1545</u>	Received by: (Signature) <u>Andrew Hobbs</u>	Date <u>8-2-24</u>	Time <u>1730</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Andrew Hobbs</u>	Date <u>8-2-24</u>	Time <u>2330</u>	Received by: (Signature) <u>Raina Schwanz</u>	Date <u>8/2/24</u>	Time <u>9:15</u>	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 8/5/2024 10:53:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 08/05/24 09:15 Work Order ID: E408025
Phone: (575) 390-6397 Date Logged In: 08/02/24 16:19 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 08/06/24 17:00 (1 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

[Empty box for client instruction]

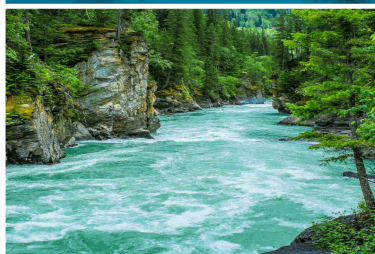
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E408107

Job Number: 20046-0001

Received: 8/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/13/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E408107
Date Received: 8/12/2024 8:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/12/2024 8:15:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 08/13/24 14:12
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW6-4'	E408107-01A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/13/2024 2:12:21PM
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SW6-4'

E408107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2433004	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.7 %	70-130	08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2433004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	08/12/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2433001	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	08/12/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2433008	
Chloride	ND	200	10	08/12/24	08/12/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/13/2024 2:12:21PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433004-BLK1)

Prepared: 08/12/24 Analyzed: 08/13/24

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	7.17		8.00		89.6	70-130			

LCS (2433004-BS1)

Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.6	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.73	0.0250	5.00		94.6	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.3	0.0250	15.0		95.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike (2433004-MS1)

Source: E408105-07

Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.75	0.0250	5.00	ND	95.1	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.89	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	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	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.6	70-130			

Matrix Spike Dup (2433004-MSD1)

Source: E408105-07

Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	1.55	20	
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	61-133	1.54	20	
Toluene	4.97	0.0250	5.00	ND	99.3	61-130	1.51	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	1.59	20	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131	1.45	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131	1.50	20	
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.8	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 8/13/2024 2:12:21PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433004-BLK1)

Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			

LCS (2433004-BS2)

Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

Matrix Spike (2433004-MS2)

Source: E408105-07

Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			

Matrix Spike Dup (2433004-MSD2)

Source: E408105-07

Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.9	70-130	2.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 8/13/2024 2:12:21PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433001-BLK1)

Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.8		50.0		120	50-200			

LCS (2433001-BS1)

Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	61.9		50.0		124	50-200			

Matrix Spike (2433001-MS1)

Source: E408106-07

Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	61.7		50.0		123	50-200			

Matrix Spike Dup (2433001-MSD1)

Source: E408106-07

Prepared: 08/12/24 Analyzed: 08/12/24

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	0.596	20	
Surrogate: n-Nonane	57.7		50.0		115	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/13/2024 2:12:21PM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2433008-BLK1)

Prepared: 08/12/24 Analyzed: 08/12/24

Chloride	ND	20.0							
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LCS (2433008-BS1)

Prepared: 08/12/24 Analyzed: 08/12/24

Chloride	257	20.0	250		103	90-110			
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Matrix Spike (2433008-MS1)

Source: E408106-06

Prepared: 08/12/24 Analyzed: 08/12/24

Chloride	266	100	250	ND	107	80-120			
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Matrix Spike Dup (2433008-MSD1)

Source: E408106-06

Prepared: 08/12/24 Analyzed: 08/12/24

Chloride	257	100	250	ND	103	80-120	3.47	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/13/24 14:12

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mack Energy</u> Project: <u>West Mount K</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only Lab WO# <u>E408107</u> Job Number <u>200400001</u>		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>			EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/>	
		Analysis and Method						RCRA <input type="checkbox"/>

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	Remarks
	8/8/24	S	1	SW6-4'	1							X		NM	

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>M Rivera</u>	Date <u>8/8/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>8-9-24</u>	Time <u>1250</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>8-9-24</u>	Time <u>1540</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8-9-24</u>	Time <u>1637</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-9-24</u>	Time <u>2317</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8/12/24</u>	Time <u>815</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 8/12/2024 10:19:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 08/12/24 08:15	Work Order ID: E408107
Phone: (575) 390-6397	Date Logged In: 08/09/24 16:25	Logged In By: Alexa Michaels
Email: Natalie@energystaffingllc.com	Due Date: 08/13/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Couier

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

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

**MACK ENERGY CORPORATION
WEST MOUNT SPILL K
DELINEATION PHOTOS**



























Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Tuesday, October 15, 2024 3:09 PM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 392865

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#) nAPP2329852272.

The sampling event is expected to take place:

When: 10/17/2024 @ 07:00
Where: G-30-15S-29E 0 FNL 0 FEL (32.986297,-104.073293)

Additional Information: NATALIE GLADDEN 575-390-6397

Additional Instructions: 32.987071 -104.07267

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 K

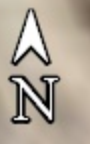
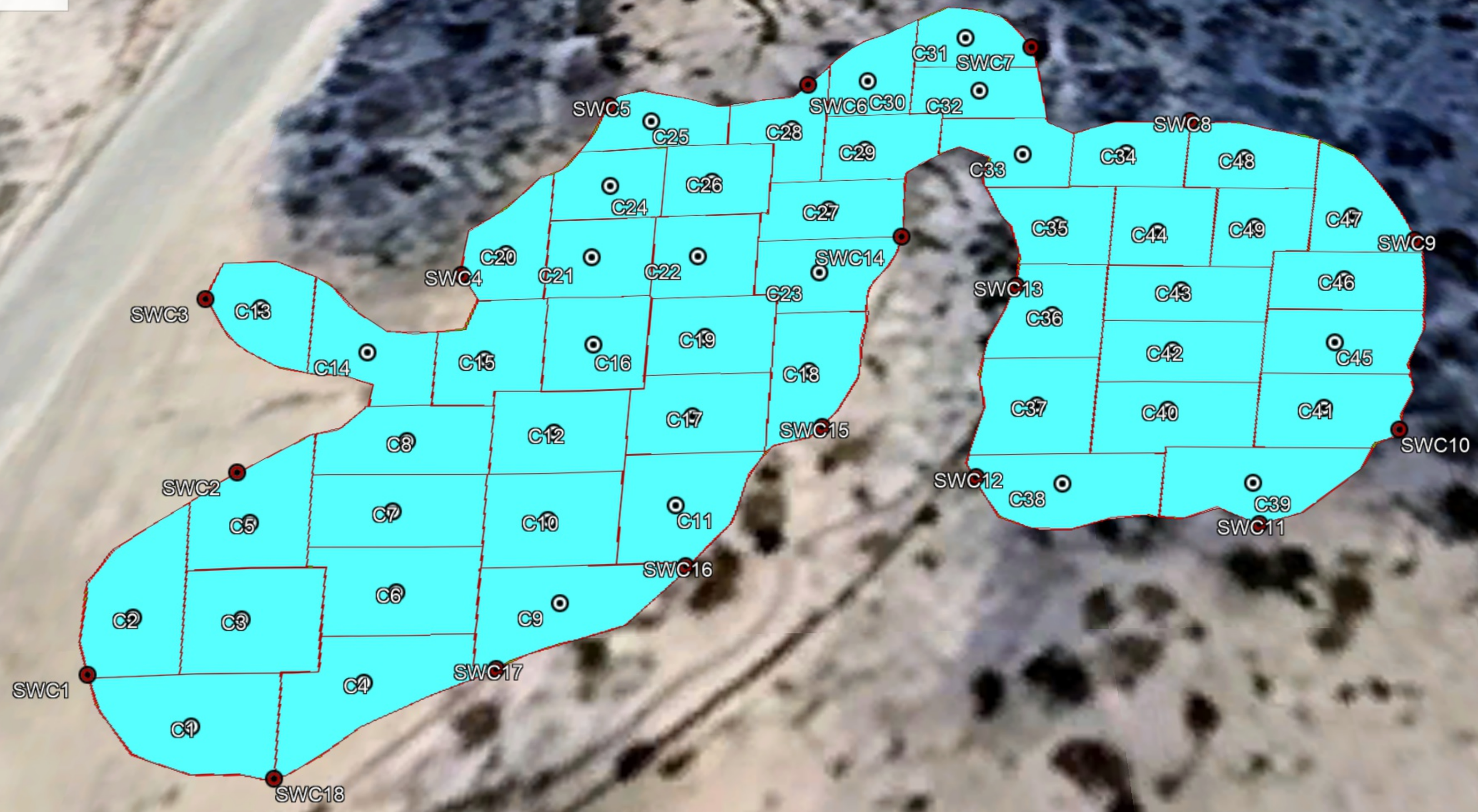
SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
COMP1	4	320	L	ND	ND	ND	ND	ND	235	10/25/2024
COMP2	4	320	L	ND	ND	ND	ND	ND	93.4	10/25/2024
COMP3	4	320	L	ND	ND	ND	ND	ND	335	10/25/2024
COMP4	4	320	L	ND	ND	ND	ND	ND	89.9	10/25/2024
COMP5	4	240	L	ND	ND	ND	ND	ND	332	10/25/2024
COMP6	4	240	L	ND	ND	ND	ND	ND	271	10/25/2024
COMP7	4	400	L	ND	ND	ND	ND	ND	316	10/25/2024
COMP8	4	400	H	ND	ND	76.1	ND	76.1	370	10/25/2024
COMP8A	6	80	L	ND	ND	ND	ND	ND	23.8	12/3/2024
COMP9	4	240	L	ND	ND	ND	ND	ND	138	10/25/2024
COMP10	4	320	L	ND	ND	ND	ND	ND	227	10/25/2024
COMP11	4	480	L	ND	ND	ND	ND	ND	257	10/25/2024
COMP12	4	240	L	ND	ND	ND	ND	ND	140	10/25/2024
COMP13	4	320	L	ND	ND	ND	ND	ND	319	10/25/2024
COMP14	4	320	L	ND	ND	43.9	ND	43.9	278	10/28/2024
COMP15	4	160	L	ND	ND	ND	ND	ND	111	10/28/2024

COMP16	4	160	L	ND	ND	ND	ND	ND	159	10/28/2024
COMP17	4	160	L	ND	ND	ND	ND	ND	1390	10/28/2024
COMP17A	6	160	L	ND	ND	ND	ND	ND	231	12/9/2024
COMP18	4	320	L	ND	ND	ND	ND	ND	276	10/28/2024
COMP19	4	160	L	ND	ND	ND	ND	ND	89.3	10/28/2024
COMP20	4	240	L	ND	ND	ND	ND	ND	163	10/28/2024
COMP21	4	320	H	ND	ND	41.9	57.1	99	285	10/28/2024
COMP21A	6	3440	L	ND	ND	ND	ND	ND	3880	12/3/2024
COMP21B	8	160	L	ND	ND	ND	ND	ND	235	12/9/2024
COMP22	4	160	L	ND	ND	ND	ND	ND	89.8	10/28/2024
COMP23	4	320	L	ND	ND	ND	ND	ND	303	10/28/2024
COMP24	4	160	L	ND	ND	ND	ND	ND	80.5	10/28/2024
COMP25	6	240	L	ND	ND	ND	ND	ND	274	10/29/2024
COMP26	6	400	L	ND	ND	ND	ND	ND	350	10/29/2024
COMP27	2	320	L	ND	ND	ND	ND	ND	173	10/29/2024
COMP28	2	480	H	ND	ND	44	83.5	127.5	470	10/29/2024
	4	320								
COMP28A	6	320	L	ND	ND	ND	ND	ND	329	12/11/2024
COMP29	4	320	L	ND	ND	ND	ND	ND	162	10/29/2024
COMP30	12	320	L	ND	ND	34.4	ND	34.4	298	10/30/2024

COMP31	12	320	L	ND	ND	32.3	ND	32.3	299	10/30/2024
COMP32	4	160	H	ND	ND	68.4	197	265.4	1260	10/30/2024
COMP32A	6	560	L	ND	ND	ND	ND	ND	606	12/3/2024
COMP32B	8	240	L	ND	ND	ND	ND	ND	97.7	12/11/2024
COMP33	4	240	L	ND	ND	ND	ND	ND	1270	10/30/2024
COMP33A	6	80	L	ND	ND	ND	ND	ND	133	12/9/2024
COMP34	4	400	L	ND	ND	ND	ND	ND	374	10/30/2024
COMP35	4	320	H	ND	ND	52.1	52.3	104.4	282	10/30/2024
COMP35A	6	320	L	ND	ND	ND	ND	ND	225	12/3/2024
COMP36	4	160	H	ND	ND	70.1	210	280.1	1330	10/30/2024
COMP36A	6	560	L	ND	ND	ND	ND	ND	649	12/3/2024
COMP36B	8	240	L	ND	ND	ND	ND	ND	82.7	12/11/2024
COMP37	4	160	H	ND	ND	76.5	220	296.5	1310	10/30/2024
	6	640								
COMP37A	8	320	L	ND	ND	ND	ND	ND	555	12/9/2024
COMP38	4	240	L	ND	ND	ND	ND	ND	1410	10/30/2024
COMP38A	6	400	L	ND	ND	ND	ND	ND	749	12/9/2024
COMP38B	8	160	L	ND	ND	ND	ND	ND	75.5	12/13/2024
COMP39	4	320	L	ND	ND	ND	ND	ND	390	10/30/2024
COMP40	6	240	L	ND	ND	ND	ND	ND	171	11/1/2024
COMP41	10	240	L	ND	ND	ND	ND	ND	156	11/1/2024
COMP42	10	400	L	ND	ND	37.5	ND	37.5	295	11/1/2024

COMP43	10	320	L	ND	ND	ND	ND	ND	132	11/1/2024
COMP44	10	320	L	ND	ND	ND	ND	ND	143	11/1/2024
COMP45	8	400	L	ND	ND	42.7	ND	42.7	272	11/1/2024
COMP46	8	240	L	ND	ND	ND	ND	ND	162	11/1/2024
COMP47	8	400	L	ND	ND	38.6	ND	38.6	290	11/1/2024
COMP48	6	160	H	ND	ND	78	219	297	1320	11/1/2024
	14	880								
COMP48A	16	160	L	ND	ND	ND	ND	ND	62.2	12/13/2024
COMP49	6	160	H	ND	ND	79.3	220	299.3	1200	11/1/2024
	14	320								
COMP49A	16	160	L	ND	ND	ND	ND	ND	89.2	12/15/2024
SWCOMP1	4	160	L	ND	ND	ND	ND	ND	33	11/13/2024
SWCOMP2	4	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP3	4	160	L	ND	ND	ND	ND	ND	35	11/13/2024
SWCOMP4	4	160	L	ND	ND	ND	ND	ND	34	11/13/2024
SWCOMP5	10	160	L	ND	ND	ND	ND	ND	34.9	11/13/2024
SWCOMP6	4	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP7	12	160	L	ND	ND	ND	ND	ND	ND	11/13/2024
SWCOMP8	4	160	L	ND	ND	ND	ND	ND	ND	11/13/2024

SWCOMP9	4	160	H	ND	ND	51.9	ND	51.9	803	11/14/2024
SWCOMP9A	6	80	L	ND	ND	ND	ND	ND	24	12/3/2024
SWCOMP10	2	160	H	ND	ND	48.9	51	99.9	862	11/14/2024
SWCOMP10A	4	560	L	ND	ND	ND	ND	ND	626	12/3/2024
SWCOMP10B	6	320	L	ND	ND	ND	ND	ND	440	12/10/2024
SWCOMP11	2	160	H	ND	ND	53	63.5	116.5	816	11/14/2024
SWCOMP11A	4	320	L	ND	ND	ND	ND	ND	223	12/3/2024
SWCOMP12	2	160	H	ND	ND	46.1	52.6	98.7	786	11/14/2024
SWCOMP12A	4	80	L	ND	ND	ND	ND	ND	3970	12/3/2024
SWCOMP12B	6	160	L	ND	ND	ND	ND	ND	156	12/10/2024
SWCOMP13	2	160	L	ND	ND	ND	ND	ND	54	11/14/2024
SWCOMP14	4	160	L	ND	ND	ND	ND	ND	54.4	11/14/2024
SWCOMP15	10	160	L	ND	ND	ND	ND	ND	53.5	11/14/2024
SWCOMP16	10	160	L	ND	ND	ND	ND	ND	58.3	11/14/2024
SWCOMP17	10	240	L	ND	ND	ND	ND	ND	ND	11/14/2024
SWCOMP18	10	240	L	ND	ND	ND	ND	ND	ND	11/14/2024



CLIENTS: MACK ENERGY

LOCATION: West Mount Spill K

Composite GPS

SAMPLE ID	LATITUDE	LONGITUDE
C1	32.986077°	-104.073792°
C2	32.986114°	-104.073823°
C3	32.986112°	-104.073784°
C4	32.986090°	-104.073737°
C5	32.986147°	-104.073790°
C6	32.986121°	-104.073732°
C7	32.986151°	-104.073739°
C8	32.986179°	-104.073739°
C9	32.986116°	-104.073674°
C10	32.986147°	-104.073682°
C11	32.986151°	-104.073636°
C12	32.986182°	-104.073684°
C13	32.986240°	-104.073810°
C14	32.986218°	-104.073762°
C15	32.986214°	-104.073715°
C16	32.986220°	-104.073673°
C17	32.986187°	-104.073632°
C18	32.986205°	-104.073588°
C19	32.986222°	-104.073629°
C20	32.986265°	-104.073714°
C21	32.986262°	-104.073678°
C22	32.986261°	-104.073634°
C23	32.986251°	-104.073584°
C24	32.986300°	-104.073674°
C25	32.986336°	-104.073659°
C26	32.986300°	-104.073630°
C27	32.986283°	-104.073580°
C28	32.986328°	-104.073596°
C29	32.986315°	-104.073564°
C30	32.986355°	-104.073562°
C31	32.986381°	-104.073516°
C32	32.986348°	-104.073512°
C33	32.986311°	-104.073496°
C34	32.986312°	-104.073451°
C35	32.986273°	-104.073485°
C36	32.986229°	-104.073492°
C37	32.986189°	-104.073502°
C38	32.986157°	-104.073496°
C39	32.986157°	-104.073427°
C40	32.986187°	-104.073453°

C41	32.986188°	-104.073394°
C42	32.986213°	-104.073447°
C43	32.986241°	-104.073439°
C44	32.986270°	-104.073444°
C45	32.986217°	-104.073383°
C46	32.986247°	-104.073372°
C47	32.986279°	-104.073361°
C48	32.986310°	-104.073400°
C49	32.986273°	-104.073403°
SWC1	32.986095°	-104.073833°
SWC2	32.986168°	-104.073799°
SWC3	32.986227°	-104.073820°
SWC4	32.986228°	-104.073754°
SWC5	32.986295°	-104.073713°
SWC6	32.986356°	-104.073664°
SWC7	32.986382°	-104.073562°
SWC8	32.986342°	-104.073485°
SWC9	32.986330°	-104.073420°
SWC10	32.986261°	-104.073337°
SWC11	32.986162°	-104.073389°
SWC12	32.986144°	-104.073481°
SWC13	32.986208°	-104.073522°
SWC14	32.986311°	-104.073534°
SWC15	32.986247°	-104.073562°
SWC16	32.986165°	-104.073609°
SWC17	32.986105°	-104.073660°
SWC18	32.986075°	-104.073737°

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E410344

Job Number: 20046-0001

Received: 10/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 10/30/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E410344
Date Received: 10/29/2024 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/29/2024 7:30:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/24 14:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp comp 1-4	E410344-01A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 2-4	E410344-02A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 3-4	E410344-03A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 4-4	E410344-04A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 5-4	E410344-05A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 6-4	E410344-06A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 7-4	E410344-07A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 8-4	E410344-08A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 9-4	E410344-09A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 10-4	E410344-10A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 11-4	E410344-11A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 12-4	E410344-12A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
Sp comp 13-4	E410344-13A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 1-4
E410344-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444038	
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.3 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>						
		93.1 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444046	
Chloride	235	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 2-4

E410344-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.8 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		95.1 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	93.4	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 3-4

E410344-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	335	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 4-4

E410344-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.9 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		89.1 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	89.9	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 5-4

E410344-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.7 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		94.1 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	332	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 6-4

E410344-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		90.9 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	271	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 7-4

E410344-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.2 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		91.8 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	316	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 8-4

E410344-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	76.1	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		81.3 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	370	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 9-4

E410344-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		80.5 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	138	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 10-4

E410344-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.6 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>						
		85.0 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	227	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 11-4

E410344-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		86.4 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	257	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 12-4

E410344-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.9 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		81.5 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	140	20.0	1	10/29/24	10/29/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Sp comp 13-4

E410344-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Benzene	ND	0.0250	1	10/29/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/29/24	10/29/24	
Toluene	ND	0.0250	1	10/29/24	10/29/24	
o-Xylene	ND	0.0250	1	10/29/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/29/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/29/24	10/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.2 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	10/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	10/29/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		82.7 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	319	20.0	1	10/29/24	10/29/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/30/2024 2:57:02PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444038-BLK1)

Prepared: 10/29/24 Analyzed: 10/29/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			

LCS (2444038-BS1)

Prepared: 10/29/24 Analyzed: 10/29/24

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.5	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.90	0.0250	5.00		97.9	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			

LCS Dup (2444038-BSD1)

Prepared: 10/29/24 Analyzed: 10/29/24

Benzene	5.22	0.0250	5.00		104	70-130	1.13	20	
Ethylbenzene	4.97	0.0250	5.00		99.5	70-130	1.00	20	
Toluene	5.11	0.0250	5.00		102	70-130	1.12	20	
o-Xylene	4.96	0.0250	5.00		99.2	70-130	1.29	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	1.12	20	
Total Xylenes	15.1	0.0250	15.0		100	70-130	1.18	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 10/30/2024 2:57:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444038-BLK1)

Prepared: 10/29/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			

LCS (2444038-BS2)

Prepared: 10/29/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0		84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

LCS Dup (2444038-BSD2)

Prepared: 10/29/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.8	70-130	0.695	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 10/30/2024 2:57:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444044-BLK1)

Prepared: 10/29/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

LCS (2444044-BS1)

Prepared: 10/29/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

LCS Dup (2444044-BSD1)

Prepared: 10/29/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132	0.377	20	
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 10/30/2024 2:57:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2444046-BLK1)

Prepared: 10/29/24 Analyzed: 10/29/24

Chloride	ND	20.0							
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LCS (2444046-BS1)

Prepared: 10/29/24 Analyzed: 10/29/24

Chloride	259	20.0	250		104	90-110			
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LCS Dup (2444046-BSD1)

Prepared: 10/29/24 Analyzed: 10/29/24

Chloride	257	20.0	250		103	90-110	0.660	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/30/24 14:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Macle Energy</u> Project: <u>westmount</u> ✓ Project Manager: Address: City, State, Zip Phone: Email: Report due by:		Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM		Lab Use Only Lab WO# <u>E410 344</u> Job Number <u>20046-0001</u>		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
				Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX		State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>		Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	10/25	S	1	Spcomp 1-4	1							X		
				Spcomp 2-4	2									
				Spcomp 3-4	3									
				Spcomp 4-4	4									
				Spcomp 5-4	5									
				Spcomp 6-4	6									
				Spcomp 7-4	7									
				Spcomp 8-4	8									
				Spcomp 9-4	9									
	10/25	S	1	Spcomp 10-4	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Caruga</u>	Date 10/25/24	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date 10-28-24	Time 12:15	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date 10-28-24	Time 1600	Received by: (Signature) <u>John Jasso</u>	Date 10-28-24	Time 1700	
Relinquished by: (Signature) <u>John Jasso</u>	Date 10-28-24	Time 2315	Received by: (Signature) <u>Noe Soto</u>	Date 10-28-24	Time 0730	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Client: <u>Mack Energy</u> Project: <u>Wegmont</u> Project Manager: Address: City, State, Zip Phone: Email: Report due by:		Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITNEY@ENERGYSTAFFINGLLC.COM		Lab Use Only Lab WO# <u>E410344</u> Job Number <u>20046-0001</u>		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/> State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>	
---	--	---	--	---	--	--	--	--	--

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	<u>10/15</u>	<u>S</u>	<u>1</u>	<u>Spcomp 11-4</u>	<u>11</u>							<input checked="" type="checkbox"/>		
	<u>1</u>	<u>1</u>	<u>1</u>	<u>Spcomp 12-4</u>	<u>12</u>							<input type="checkbox"/>		
	<u>10/15</u>	<u>S</u>	<u>1</u>	<u>Spcomp 13-4</u>	<u>13</u>							<input checked="" type="checkbox"/>		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Corra</u>	Date	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date	Time	Received by: (Signature) <u>Indee Shro</u>	Date	Time	
Relinquished by: (Signature) <u>Indee Shro</u>	Date	Time	Received by: (Signature) <u>Noe Soto</u>	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E410386

Job Number: 20046-0001

Received: 11/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 11/4/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E410386
Date Received: 11/1/2024 7:00:00AM

Natalie Gladden,

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

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Raina Schwanz
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/04/24 14:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 30-12	E410386-01A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 31-12	E410386-02A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 32-4	E410386-03A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 33-4	E410386-04A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 34-4	E410386-05A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 35-4	E410386-06A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 36-4	E410386-07A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 37-4	E410386-08A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 38-4	E410386-09A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 39-4	E410386-10A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 30-12

E410386-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	34.4	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	298	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 31-12

E410386-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.4 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	32.3	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		91.9 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	299	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 32-4

E410386-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	68.4	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	197	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		91.3 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1260	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 33-4

E410386-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		98.2 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1270	40.0	2	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 34-4

E410386-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		98.3 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	373	20.0	1	11/01/24	11/02/24	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 35-4

E410386-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	52.1	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	52.3	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		97.7 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	282	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 36-4

E410386-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.0 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2444145	
Diesel Range Organics (C10-C28)	70.1	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	210	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		95.4 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444152	
Chloride	1330	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 37-4

E410386-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	76.5	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	220	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		91.4 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1310	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 38-4

E410386-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		94.5 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1410	100	5	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 39-4

E410386-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		92.9 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	390	20.0	1	11/01/24	11/02/24	

QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444143-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.1	70-130			

LCS (2444143-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

LCS Dup (2444143-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.26	0.0250	5.00		105	70-130	0.147	20	
Ethylbenzene	5.15	0.0250	5.00		103	70-130	0.410	20	
Toluene	5.24	0.0250	5.00		105	70-130	0.281	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	0.298	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	0.367	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	0.345	20	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/4/2024 2:39:30PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444143-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2444143-BS2)

Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS Dup (2444143-BSD2)

Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.6	70-130	0.641	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/4/2024 2:39:30PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444145-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2444145-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	231	25.0	250		92.3	38-132			
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			

LCS Dup (2444145-BSD1)

Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132	8.23	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/4/2024 2:39:30PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2444152-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Chloride	ND	20.0							
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LCS (2444152-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Chloride	256	20.0	250		103	90-110			
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LCS Dup (2444152-BSD1)

Prepared: 11/01/24 Analyzed: 11/02/24

Chloride	258	20.0	250		103	90-110	0.430	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/04/24 14:39

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mace Energy</u>	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only		TAT			EPA Program						
Project: <u>Westmount E</u>		Lab WO# <u>E40380</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA	SDWA				
Project Manager:		Analysis and Method							RCRA				
Address:		DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDQC NM BGDQC TX							State				
City, State, Zip									NM	CO	UT	AZ	TX
Phone:									Remarks				
Email:													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDQC NM	BGDQC TX	Remarks
	10/30/24	S	1	Spcomp 30-12	1							X		
				Spcomp 31-12	2									
				Spcomp 32-4	3									
				Spcomp 33-4	4									
				Spcomp 34-4	5									
				Spcomp 35-4	6									
				Spcomp 36-4	7									
				Spcomp 37-4	8									
				Spcomp 38-4	9									
	10/30/24	S	1	Spcomp 39-4	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Tonga</u>	Date <u>10/30/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>10/31/24</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>10-31-24</u>	Time <u>1615</u>	Received by: (Signature) <u>John Jasso</u>	Date <u>10-31-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>John Jasso</u>	Date <u>10-31-24</u>	Time <u>2400</u>	Received by: (Signature) <u>Carth Mac</u>	Date <u>11-1-24</u>	Time <u>7:00</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 11/1/2024 8:30:12AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 11/01/24 07:00	Work Order ID: E410386
Phone: (575) 390-6397	Date Logged In: 10/31/24 14:38	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 11/04/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Envirotech Analytical Laboratory

Printed: 10/29/2024 9:17:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 10/29/24 07:30 Work Order ID: E410344
Phone: (575) 390-6397 Date Logged In: 10/28/24 16:17 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 10/30/24 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instructions.

Comments/Resolution

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

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E410356

Job Number: 20046-0001

Received: 10/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/31/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E410356
Date Received: 10/30/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2024 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/24 14:13
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp comp 14 -4	E410356-01A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 15 -4	E410356-02A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 16 -4	E410356-03A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 17 -4	E410356-04A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 18 -4	E410356-05A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 19 -4	E410356-06A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 20 -4	E410356-07A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 21 -4	E410356-08A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 22 -4	E410356-09A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 23 -4	E410356-10A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.
Sp comp 24 -4	E410356-11A	Soil	10/28/24	10/30/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 14 -4
E410356-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.2 %	70-130		10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444075	
Diesel Range Organics (C10-C28)	43.9	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444076	
Chloride	278	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 15 -4

E410356-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444075
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444076
Chloride	111	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 16 -4

E410356-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444075	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444076	
Chloride	159	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 17 -4

E410356-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444075	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444076	
Chloride	1390	100	5	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 18 -4

E410356-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444075
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444076
Chloride	276	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 19 -4

E410356-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444075
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444076
Chloride	89.3	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 20 -4

E410356-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.1 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444075	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/30/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/30/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444076	
Chloride	163	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 21 -4

E410356-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444075
Diesel Range Organics (C10-C28)	41.9	25.0	1	10/30/24	10/31/24	
Oil Range Organics (C28-C36)	57.1	50.0	1	10/30/24	10/31/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/30/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444076
Chloride	285	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 22 -4

E410356-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444075	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/31/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/30/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444076	
Chloride	89.8	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 23 -4

E410356-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444075	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/31/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/30/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444076	
Chloride	303	20.0	1	10/30/24	10/30/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Sp comp 24 -4

E410356-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Benzene	ND	0.0250	1	10/30/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/30/24	
Toluene	ND	0.0250	1	10/30/24	10/30/24	
o-Xylene	ND	0.0250	1	10/30/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	10/30/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444075
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/24	10/31/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	10/30/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444076
Chloride	80.5	20.0	1	10/30/24	10/30/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 10/31/2024 2:13:24PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444078-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

LCS (2444078-BS1)

Prepared: 10/30/24 Analyzed: 10/30/24

Benzene	5.14	0.0250	5.00		103	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

LCS Dup (2444078-BSD1)

Prepared: 10/30/24 Analyzed: 10/30/24

Benzene	5.10	0.0250	5.00		102	70-130	0.698	20	
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130	0.386	20	
Toluene	5.04	0.0250	5.00		101	70-130	0.498	20	
o-Xylene	4.92	0.0250	5.00		98.3	70-130	0.441	20	
p,m-Xylene	10.0	0.0500	10.0		100	70-130	0.298	20	
Total Xylenes	15.0	0.0250	15.0		99.7	70-130	0.345	20	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.2	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 10/31/2024 2:13:24PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444078-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			

LCS (2444078-BS2)

Prepared: 10/30/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	36.4	20.0	50.0		72.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS Dup (2444078-BSD2)

Prepared: 10/30/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0		78.2	70-130	7.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 10/31/2024 2:13:24PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444075-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.6		50.0		109	50-200			

LCS (2444075-BS1)

Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

LCS Dup (2444075-BSD1)

Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132	0.974	20	
Surrogate: n-Nonane	52.6		50.0		105	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 10/31/2024 2:13:24PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2444076-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Chloride	ND	20.0							
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LCS (2444076-BS1)

Prepared: 10/30/24 Analyzed: 10/30/24

Chloride	254	20.0	250		102	90-110			
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LCS Dup (2444076-BSD1)

Prepared: 10/30/24 Analyzed: 10/30/24

Chloride	257	20.0	250		103	90-110	1.18	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/31/24 14:13

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>MacL Energy</u>	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only		TAT				EPA Program		
Project: <u>WEST MOUNTAIN</u>		Lab WO# <u>E410356</u>	Job Number <u>20046.0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Analysis and Method								RCRA
Address:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State
City, State, Zip										NM CO UT AZ TX
Phone:										
Email:									Remarks	
Report due by:										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	10/28/24	S	1	Spcomp 14-4	1							X		
				Spcomp 15-4	2									
				Spcomp 16-4	3									
				Spcomp 17-4	4									
				Spcomp 18-4	5									
				Spcomp 19-4	6									
				Spcomp 20-4	7									
				Spcomp 21-4	8									
				Spcomp 22-4	9									
	10/28/24	S	1	Spcomp 23-4	10							X		

Additional Instructions:

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

Sampled by: Andy Torrey

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Torrey</u>	Date 10/18/24	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date 10/29/24	Time 1230	Lab Use Only Received on ice: <u>Y N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date 10/29/24	Time 1630	Received by: (Signature) <u>John HBB</u>	Date 10/29/24	Time 1630	
Relinquished by: (Signature) <u>John HBB</u>	Date 10/29/24	Time 2245	Received by: (Signature) <u>Caitlin Man</u>	Date 10/30/24	Time 8:00	

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

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

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

Client: <u>Maell Energy</u> Project: <u>Westmount</u> Project Manager: Address: City, State, Zip Phone: Email: Report due by:		Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM		Lab Use Only Lab WO# <u>E410350</u> Job Number <u>20046-0001</u>		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/> State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>	
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	10/28/24	S	1	Spcomp 24-4	11							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Audrey Torrey</u>	Date <u>10/28/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>10.29.24</u>	Time <u>1230</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>10.29.24</u>	Time <u>1630</u>	Received by: (Signature) <u>John Jasso</u>	Date <u>10.29.24</u>	Time <u>1630</u>	
Relinquished by: (Signature) <u>John Jasso</u>	Date <u>10.29.24</u>	Time <u>2245</u>	Received by: (Signature) <u>Cathy Man</u>	Date <u>10.30.24</u>	Time <u>8:00</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 10/30/2024 8:37:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 10/30/24 08:00 Work Order ID: E410356
Phone: (575) 390-6397 Date Logged In: 10/29/24 16:10 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 10/31/24 17:00 (1 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E410376

Job Number: 20046-0001

Received: 10/31/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/1/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 11/1/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E410376
Date Received: 10/31/2024 6:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/31/2024 6:30:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/01/24 12:05
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 25-6	E410376-01A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
SP Comp 26-6	E410376-02A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
SP Comp 27-2	E410376-03A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
SP Comp 28-2	E410376-04A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.
SP Comp 29-4	E410376-05A	Soil	10/29/24	10/31/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/1/2024 12:05:28PM
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SP Comp 25-6
E410376-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2444109
Benzene	ND	0.0250	1	10/30/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/31/24	
Toluene	ND	0.0250	1	10/30/24	10/31/24	
o-Xylene	ND	0.0250	1	10/30/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.4 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2444109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.2 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/31/24	10/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444131
Chloride	274	20.0	1	10/31/24	10/31/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/1/2024 12:05:28PM
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SP Comp 26-6

E410376-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444109	
Benzene	ND	0.0250	1	10/30/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/31/24	
Toluene	ND	0.0250	1	10/30/24	10/31/24	
o-Xylene	ND	0.0250	1	10/30/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/24	10/31/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	10/31/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444131	
Chloride	350	20.0	1	10/31/24	10/31/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/1/2024 12:05:28PM
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SP Comp 27-2

E410376-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444109
Benzene	ND	0.0250	1	10/30/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/31/24	
Toluene	ND	0.0250	1	10/30/24	10/31/24	
o-Xylene	ND	0.0250	1	10/30/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.9 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/24	10/31/24	
<i>Surrogate: n-Nonane</i>		99.8 %	50-200	10/31/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2444131
Chloride	173	20.0	1	10/31/24	10/31/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/1/2024 12:05:28PM
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SP Comp 28-2

E410376-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444109	
Benzene	ND	0.0250	1	10/30/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/31/24	
Toluene	ND	0.0250	1	10/30/24	10/31/24	
o-Xylene	ND	0.0250	1	10/30/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444098	
Diesel Range Organics (C10-C28)	44.0	25.0	1	10/31/24	10/31/24	
Oil Range Organics (C28-C36)	83.5	50.0	1	10/31/24	10/31/24	
<i>Surrogate: n-Nonane</i>		96.9 %	50-200	10/31/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444131	
Chloride	470	20.0	1	10/31/24	10/31/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/1/2024 12:05:28PM
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SP Comp 29-4

E410376-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2444109
Benzene	ND	0.0250	1	10/30/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/30/24	10/31/24	
Toluene	ND	0.0250	1	10/30/24	10/31/24	
o-Xylene	ND	0.0250	1	10/30/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/30/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/30/24	10/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2444109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/24	10/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	10/30/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2444098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/31/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/31/24	10/31/24	
<i>Surrogate: n-Nonane</i>		98.8 %	50-200	10/31/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2444131
Chloride	162	20.0	1	10/31/24	10/31/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/1/2024 12:05:28PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444109-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

LCS (2444109-BS1)

Prepared: 10/30/24 Analyzed: 10/30/24

Benzene	5.66	0.0250	5.00		113	70-130			
Ethylbenzene	5.47	0.0250	5.00		109	70-130			
Toluene	5.59	0.0250	5.00		112	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

LCS Dup (2444109-BSD1)

Prepared: 10/30/24 Analyzed: 10/30/24

Benzene	5.30	0.0250	5.00		106	70-130	6.55	20	
Ethylbenzene	5.13	0.0250	5.00		103	70-130	6.45	20	
Toluene	5.24	0.0250	5.00		105	70-130	6.51	20	
o-Xylene	5.13	0.0250	5.00		103	70-130	6.54	20	
p,m-Xylene	10.4	0.0500	10.0		104	70-130	6.45	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	6.48	20	
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/1/2024 12:05:28PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444109-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			

LCS (2444109-BS2)

Prepared: 10/30/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0		78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

LCS Dup (2444109-BSD2)

Prepared: 10/30/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	37.9	20.0	50.0		75.7	70-130	3.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/1/2024 12:05:28PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444098-BLK1)

Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2444098-BS1)

Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS Dup (2444098-BSD1)

Prepared: 10/30/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132	1.74	20	
Surrogate: n-Nonane	56.6		50.0		113	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/1/2024 12:05:28PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444131-BLK1)

Prepared: 10/31/24 Analyzed: 10/31/24

Chloride	ND	20.0							
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LCS (2444131-BS1)

Prepared: 10/31/24 Analyzed: 10/31/24

Chloride	250	20.0	250		100	90-110			
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LCS Dup (2444131-BSD1)

Prepared: 10/31/24 Analyzed: 10/31/24

Chloride	250	20.0	250		99.9	90-110	0.115	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/01/24 12:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Name of Custody

Page 1 of 1

Client: Watt Energy
 Project: Westwood Rd
 Project Manager:
 Address:
 City, State, Zip:
 Phone:
 Email:

Bill To
 Attention: ENERGY STAFFING SERVICES
 Address: 3724 NW COUNTY RD
 City, State, Zip: HOBBBS, NM 88740
 Phone: 575-395-9028
 Email: NATALIE@ENERGYSTAFFING.COM
 BRILLIANT@ENERGYSTAFFING.COM

Lab Use Only
 Lab WO# 4130710
 Job Number 20016-0001
 Analysis and Method
 ID 1D 3D Standard
 EPA Program CWA SDWA RCRA
 State NM CO UT AZ TX
 Remarks

Time Sampled	Date	Volume	Type of Contaminant	Sample ID	Lab Number	Analysis and Method
	10/29	5	1	SPcomp 25-4	1	
				SPcomp 26-4	2	
				SPcomp 27-2	3	
				SPcomp 28-2	4	
	10/29	5	1	SPcomp 29-4	5	

Additional Instructions:

1. (For sample 1) alert to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample for action, date or time of collection is considered fraud and may be grounds for legal action.
 Witnessed by: (Signature) Ashby
 Date: 10/29
 Time: 16:30

Requested by (Signature): Michelle Gonzales
 Date: 10-30-24
 Time: 16:30
 Received by (Signature): Michelle Gonzales
 Date: 10-30-24
 Time: 16:30

Permitted by (Signature): William J.
 Date: 10-30-24
 Time: 16:30
 Received by (Signature): William J.
 Date: 10-31-24
 Time: 16:30

Sample Material: Soil, Sediment, Sludge, Aqueous, G. Other
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
 Hazardous samples will be returned to client or disposed of at the client's expense. The report for the analysis of the above samples is applicable only to the sample received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

ENVIRONMENTAL PROTECT

Received on site: Y/N
 Lab Use Only
 AVG Temp °C: 4
 State: NM

Envirotech Analytical Laboratory

Printed: 10/31/2024 7:25:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 10/31/24 06:30	Work Order ID: E410376
Phone: (575) 390-6397	Date Logged In: 10/30/24 14:23	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 11/01/24 17:00 (1 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
 - 8. If yes, was cooler received in good condition? Yes
 - 9. Was the sample(s) received intact, i.e., not broken? Yes
 - 10. Were custody/security seals present? No
 - 11. If yes, were custody/security seals intact? NA
 - 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

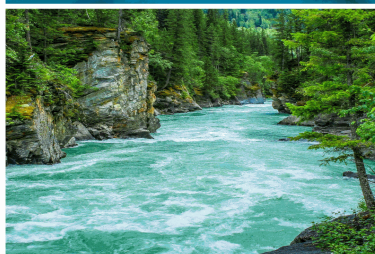
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E410386

Job Number: 20046-0001

Received: 11/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 11/4/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E410386
Date Received: 11/1/2024 7:00:00AM

Natalie Gladden,

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

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

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

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

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

Respectfully,

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

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/04/24 14:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 30-12	E410386-01A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 31-12	E410386-02A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 32-4	E410386-03A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 33-4	E410386-04A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 34-4	E410386-05A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 35-4	E410386-06A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 36-4	E410386-07A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 37-4	E410386-08A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 38-4	E410386-09A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.
SP Comp 39-4	E410386-10A	Soil	10/30/24	11/01/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 30-12

E410386-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.9 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	34.4	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>						
		96.7 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	298	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 31-12

E410386-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.4 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	32.3	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		91.9 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	299	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 32-4

E410386-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	68.4	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	197	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		91.3 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1260	20.0	1	11/01/24	11/02/24	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 33-4

E410386-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		98.2 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1270	40.0	2	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 34-4

E410386-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		98.3 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	373	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 35-4

E410386-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	52.1	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	52.3	50.0	1	11/01/24	11/01/24	
<i>Surrogate: n-Nonane</i>		97.7 %	50-200	11/01/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	282	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 36-4

E410386-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.0 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2444145	
Diesel Range Organics (C10-C28)	70.1	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	210	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		95.4 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444152	
Chloride	1330	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 37-4

E410386-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444143	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2444145	
Diesel Range Organics (C10-C28)	76.5	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	220	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		91.4 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444152	
Chloride	1310	20.0	1	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 38-4

E410386-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		94.5 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	1410	100	5	11/01/24	11/02/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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SP Comp 39-4

E410386-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Benzene	ND	0.0250	1	11/01/24	11/03/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/03/24	
Toluene	ND	0.0250	1	11/01/24	11/03/24	
o-Xylene	ND	0.0250	1	11/01/24	11/03/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/03/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2444143
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	11/01/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2444145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/02/24	
<i>Surrogate: n-Nonane</i>		92.9 %	50-200	11/01/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2444152
Chloride	390	20.0	1	11/01/24	11/02/24	

QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/4/2024 2:39:30PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444143-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.1	70-130			

LCS (2444143-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

LCS Dup (2444143-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.26	0.0250	5.00		105	70-130	0.147	20	
Ethylbenzene	5.15	0.0250	5.00		103	70-130	0.410	20	
Toluene	5.24	0.0250	5.00		105	70-130	0.281	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	0.298	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	0.367	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	0.345	20	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/4/2024 2:39:30PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444143-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2444143-BS2)

Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS Dup (2444143-BSD2)

Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.6	70-130	0.641	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/4/2024 2:39:30PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444145-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2444145-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	231	25.0	250		92.3	38-132			
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			

LCS Dup (2444145-BSD1)

Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132	8.23	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/4/2024 2:39:30PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444152-BLK1)

Prepared: 11/01/24 Analyzed: 11/01/24

Chloride ND 20.0

LCS (2444152-BS1)

Prepared: 11/01/24 Analyzed: 11/01/24

Chloride 256 20.0 250 103 90-110

LCS Dup (2444152-BSD1)

Prepared: 11/01/24 Analyzed: 11/02/24

Chloride 258 20.0 250 103 90-110 0.430 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 K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/04/24 14:39

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mace Energy</u>	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only		TAT			EPA Program						
Project: <u>Westmount E</u>		Lab WO# <u>E40380</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA	SDWA				
Project Manager:		Analysis and Method							RCRA				
Address:		DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDQC NM BGDQC TX							State				
City, State, Zip									NM	CO	UT	AZ	TX
Phone:									Remarks				
Email:													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDQC NM	BGDQC TX	Remarks
	10/30/24	S	1	Spcomp 30-12	1							X		
				Spcomp 31-12	2									
				Spcomp 32-4	3									
				Spcomp 33-4	4									
				Spcomp 34-4	5									
				Spcomp 35-4	6									
				Spcomp 36-4	7									
				Spcomp 37-4	8									
				Spcomp 38-4	9									
	10/30/24	S	1	Spcomp 39-4	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Tonga</u>	Date <u>10/30/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>10/31/24</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>10-31-24</u>	Time <u>1615</u>	Received by: (Signature) <u>John Jasso</u>	Date <u>10-31-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>John Jasso</u>	Date <u>10-31-24</u>	Time <u>2400</u>	Received by: (Signature) <u>Carth Mac</u>	Date <u>11-1-24</u>	Time <u>7:00</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 11/1/2024 8:30:12AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 11/01/24 07:00 Work Order ID: E410386
Phone: (575) 390-6397 Date Logged In: 10/31/24 14:38 Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com Due Date: 11/04/24 17:00 (1 day TAT)

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instructions.

Comments/Resolution

Project manager and time sampled not provided on COC.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E411031

Job Number: 20046-0001

Received: 11/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 11/6/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E411031
Date Received: 11/5/2024 7:45:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/5/2024 7:45:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Client Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/06/24 15:01
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 40-6	E411031-01A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 41-10	E411031-02A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 42-10	E411031-03A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 43-10	E411031-04A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 44-10	E411031-05A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 45-8	E411031-06A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 46-8	E411031-07A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 47-8	E411031-08A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 48-6	E411031-09A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.
SP Comp 49-6	E411031-10A	Soil	11/01/24	11/05/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 40-6
E411031-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	171	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 41-10

E411031-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.2 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	156	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 42-10

E411031-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.1 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	37.5	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	295	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 43-10

E411031-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	132	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 44-10

E411031-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		97.6 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	143	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 45-8

E411031-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.7 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	42.7	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	272	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 46-8

E411031-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		97.4 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	162	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 47-8

E411031-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.6 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	38.6	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		95.0 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	290	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 48-6

E411031-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	78.0	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	219	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	1320	20.0	1	11/05/24	11/05/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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SP Comp 49-6

E411031-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Benzene	ND	0.0250	1	11/05/24	11/05/24	
Ethylbenzene	ND	0.0250	1	11/05/24	11/05/24	
Toluene	ND	0.0250	1	11/05/24	11/05/24	
o-Xylene	ND	0.0250	1	11/05/24	11/05/24	
p,m-Xylene	ND	0.0500	1	11/05/24	11/05/24	
Total Xylenes	ND	0.0250	1	11/05/24	11/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.1 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2445031
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/24	11/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	11/05/24	11/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2445037
Diesel Range Organics (C10-C28)	79.3	25.0	1	11/05/24	11/05/24	
Oil Range Organics (C28-C36)	220	50.0	1	11/05/24	11/05/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	11/05/24	11/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2445036
Chloride	1200	20.0	1	11/05/24	11/05/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445031-BLK1)

Prepared: 11/05/24 Analyzed: 11/05/24

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	7.30		8.00		91.3	70-130			

LCS (2445031-BS1)

Prepared: 11/05/24 Analyzed: 11/05/24

Benzene	4.78	0.0250	5.00		95.5	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.3	70-130			
Toluene	4.89	0.0250	5.00		97.7	70-130			
o-Xylene	4.86	0.0250	5.00		97.2	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.8	70-130			

LCS Dup (2445031-BSD1)

Prepared: 11/05/24 Analyzed: 11/05/24

Benzene	4.76	0.0250	5.00		95.1	70-130	0.429	20	
Ethylbenzene	4.85	0.0250	5.00		97.0	70-130	0.238	20	
Toluene	4.87	0.0250	5.00		97.4	70-130	0.360	20	
o-Xylene	4.86	0.0250	5.00		97.2	70-130	0.0278	20	
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130	0.231	20	
Total Xylenes	14.7	0.0250	15.0		98.2	70-130	0.164	20	
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/6/2024 3:01:32PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445031-BLK1)

Prepared: 11/05/24 Analyzed: 11/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

LCS (2445031-BS2)

Prepared: 11/05/24 Analyzed: 11/05/24

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			

LCS Dup (2445031-BSD2)

Prepared: 11/05/24 Analyzed: 11/05/24

Gasoline Range Organics (C6-C10)	41.4	20.0	50.0		82.7	70-130	2.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/6/2024 3:01:32PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445037-BLK1)

Prepared: 11/05/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.7		50.0		99.5	50-200			

LCS (2445037-BS1)

Prepared: 11/05/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2445037-MS1)

Source: E411029-02

Prepared: 11/05/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	49.8		50.0		99.5	50-200			

Matrix Spike Dup (2445037-MSD1)

Source: E411029-02

Prepared: 11/05/24 Analyzed: 11/05/24

Diesel Range Organics (C10-C28)	289	25.0	250	ND	115	38-132	2.49	20	
Surrogate: n-Nonane	51.9		50.0		104	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/6/2024 3:01:32PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445036-BLK1)

Prepared: 11/05/24 Analyzed: 11/05/24

Chloride	ND	20.0							
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LCS (2445036-BS1)

Prepared: 11/05/24 Analyzed: 11/05/24

Chloride	251	20.0	250		100	90-110			
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LCS Dup (2445036-BSD1)

Prepared: 11/05/24 Analyzed: 11/05/24

Chloride	253	20.0	250		101	90-110	0.796	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/06/24 15:01

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: <u>Mack Energy</u>	Bill To	Lab Use Only		TAT			EPA Program					
Project: <u>Westmount</u>	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA			
Project Manager:	Address: 2724 NW COUNTY RD	<u>E411031</u>	<u>2046-0001</u>		<input checked="" type="checkbox"/>							
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							RCRA			
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State				
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM							NM	CO	UT	AZ	TX
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM							<input checked="" type="checkbox"/>				
Report due by:		BGDOC NM	BGDOC TX					Remarks				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	11/1/24	S	1	Spcomp 40-6	1							<input checked="" type="checkbox"/>		
				Spcomp 41-10	2									
				Spcomp 42-10	3									
				Spcomp 43-10	4									
				Spcomp 44-10	5									
				Spcomp 45-8	6									
				Spcomp 46-8	7									
				Spcomp 47-8	8									
				Spcomp 48-6	9									
	11/1/24	S	1	Spcomp 49-6	10							<input checked="" type="checkbox"/>		

Additional Instructions:

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

Relinquished by: (Signature) <u>Andy Toruga</u>	Date <u>11/1/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-4-24</u>	Time <u>1230</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-4-24</u>	Time <u>1545</u>	Received by: (Signature) <u>John Russo</u>	Date <u>11-4-24</u>	Time <u>1730</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>John Russo</u>	Date <u>11.4.24</u>	Time <u>2345</u>	Received by: (Signature) <u>Carth Man</u>	Date <u>11.5.24</u>	Time <u>7:45</u>	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						

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



Envirotech Analytical Laboratory

Printed: 11/5/2024 8:34:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 11/05/24 07:45	Work Order ID: E411031
Phone: (575) 390-6397	Date Logged In: 11/04/24 14:56	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 11/06/24 17:00 (1 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E411144

Job Number: 20046-0001

Received: 11/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 11/18/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E411144
Date Received: 11/15/2024 6:30:37AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2024 6:30:37AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/24 16:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 1-4	E411144-01A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 2-4	E411144-02A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 3-4	E411144-03A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 4-4	E411144-04A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 5-10	E411144-05A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 6-4	E411144-06A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 7-12	E411144-07A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW Comp 8-4	E411144-08A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 1-4

E411144-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.7 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	33.0	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 2-4

E411144-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.3 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	ND	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 3-4

E411144-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.1 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.3 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	35.0	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 4-4

E411144-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	34.0	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 5-10

E411144-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2446138	
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.9 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2446138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2446139	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2446141	
Chloride	34.9	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 6-4

E411144-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.5 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.9 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	ND	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 7-12

E411144-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	ND	20.0	1	11/15/24	11/15/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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SW Comp 8-4

E411144-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Benzene	ND	0.0250	1	11/15/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/16/24	
Toluene	ND	0.0250	1	11/15/24	11/16/24	
o-Xylene	ND	0.0250	1	11/15/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.9 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2446138
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	11/15/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2446139
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	11/15/24	11/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2446141
Chloride	ND	20.0	1	11/15/24	11/15/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446138-BLK1)

Prepared: 11/15/24 Analyzed: 11/15/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

LCS (2446138-BS1)

Prepared: 11/15/24 Analyzed: 11/17/24

Benzene	5.57	0.0250	5.00		111	70-130			
Ethylbenzene	5.29	0.0250	5.00		106	70-130			
Toluene	5.44	0.0250	5.00		109	70-130			
o-Xylene	5.30	0.0250	5.00		106	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	16.0	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

LCS Dup (2446138-BSD1)

Prepared: 11/15/24 Analyzed: 11/15/24

Benzene	5.75	0.0250	5.00		115	70-130	3.29	20	
Ethylbenzene	5.50	0.0250	5.00		110	70-130	3.87	20	
Toluene	5.64	0.0250	5.00		113	70-130	3.66	20	
o-Xylene	5.53	0.0250	5.00		111	70-130	4.30	20	
p,m-Xylene	11.2	0.0500	10.0		112	70-130	4.03	20	
Total Xylenes	16.7	0.0250	15.0		111	70-130	4.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446138-BLK1)

Prepared: 11/15/24 Analyzed: 11/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

LCS (2446138-BS2)

Prepared: 11/15/24 Analyzed: 11/15/24

Gasoline Range Organics (C6-C10)	37.6	20.0	50.0		75.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

LCS Dup (2446138-BSD2)

Prepared: 11/15/24 Analyzed: 11/16/24

Gasoline Range Organics (C6-C10)	37.8	20.0	50.0		75.7	70-130	0.571	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/18/2024 4:45:39PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446139-BLK1)

Prepared: 11/15/24 Analyzed: 11/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	50-200			

LCS (2446139-BS1)

Prepared: 11/15/24 Analyzed: 11/16/24

Diesel Range Organics (C10-C28)	266	25.0	250		107	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

Matrix Spike (2446139-MS1)

Source: E411144-05

Prepared: 11/15/24 Analyzed: 11/16/24

Diesel Range Organics (C10-C28)	294	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	58.0		50.0		116	50-200			

Matrix Spike Dup (2446139-MSD1)

Source: E411144-05

Prepared: 11/15/24 Analyzed: 11/16/24

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	1.41	20	
Surrogate: n-Nonane	55.4		50.0		111	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/18/2024 4:45:39PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2446141-BLK1)

Prepared: 11/15/24 Analyzed: 11/15/24

Chloride	ND	20.0							
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LCS (2446141-BS1)

Prepared: 11/15/24 Analyzed: 11/15/24

Chloride	253	20.0	250		101	90-110			
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LCS Dup (2446141-BSD1)

Prepared: 11/15/24 Analyzed: 11/15/24

Chloride	257	20.0	250		103	90-110	1.35	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/18/24 16:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mac Energy</u> Project: <u>Westmount 7c</u> Project Manager: Address: City, State, Zip: Phone: Email:	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only Lab WO# <u>E411144</u> Job Number <u>20046-0001</u>	TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> Standard	EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>
Report due by:		Analysis and Method		State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	11/13/24	S	1	SWcomp 1-4	1							X		
				SWcomp 2-4	2									
				SWcomp 3-4	3									
				SWcomp 4-4	4									
				SWcomp 5-10	5									
				SWcomp 6-4	6									
				SWcomp 7-12	7									
	11/13/24	S	1	SWcomp 8-4	8							X		
					9	CM								
					10									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Tongva</u>	Date <u>11/13/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-14-24</u>	Time <u>1310</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-14-24</u>	Time <u>1600</u>	Received by: (Signature) <u>Stephen J.</u>	Date <u>11-14-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Stephen J.</u>	Date <u>11.14.24</u>	Time <u>2345</u>	Received by: (Signature) <u>Cathy Ma</u>	Date <u>11-15-24</u>	Time <u>10:30</u>	

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



Envirotech Analytical Laboratory

Printed: 11/15/2024 8:38:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 11/15/24 06:30 Work Order ID: E411144
Phone: (575) 390-6397 Date Logged In: 11/14/24 13:50 Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com Due Date: 11/18/24 17:00 (1 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

[Empty box for client instruction]

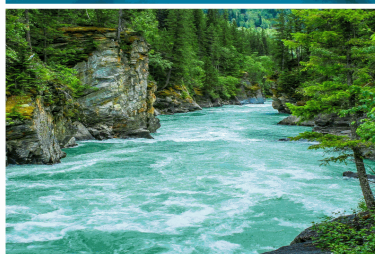
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount (K)

Work Order: E411178

Job Number: 20046-0001

Received: 11/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/19/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount (K)
Workorder: E411178
Date Received: 11/19/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/19/2024 6:00:00AM, under the Project Name: West Mount (K).

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

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/24 16:49
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 1-2'	E411178-01A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 2-2'	E411178-02A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 3-2'	E411178-03A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 4-2'	E411178-04A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 5-2'	E411178-05A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 6-2'	E411178-06A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 7-2'	E411178-07A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 8-2'	E411178-08A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 9-2'	E411178-09A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.
SP Comp 10-2'	E411178-10A	Soil	11/15/24	11/19/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 1-2'
E411178-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447016
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		85.4 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.5 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2447022
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>						
		98.5 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2447020
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 2-2'

E411178-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.1 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		81.2 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 3-2'

E411178-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447016
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.8 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2447022
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>						
		96.8 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2447020
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 4-2'

E411178-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.7 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 5-2'

E411178-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.7 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.6 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		89.2 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 6-2'

E411178-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		99.7 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	285	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 7-2'

E411178-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.9 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 8-2'

E411178-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		98.4 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 9-2'

E411178-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.9 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2447022	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>		94.9 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2447020	
Chloride	ND	100	5	11/19/24	11/19/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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SP Comp 10-2'

E411178-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447016
Benzene	ND	0.0250	1	11/19/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/19/24	11/19/24	
Toluene	ND	0.0250	1	11/19/24	11/19/24	
o-Xylene	ND	0.0250	1	11/19/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/19/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/19/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.0 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/19/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	11/19/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2447022
Diesel Range Organics (C10-C28)	ND	25.0	1	11/19/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/19/24	11/19/24	
<i>Surrogate: n-Nonane</i>						
		94.4 %	50-200	11/19/24	11/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2447020
Chloride	ND	100	5	11/19/24	11/19/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 4:49:11PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447016-BLK1)

Prepared: 11/18/24 Analyzed: 11/18/24

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	7.01		8.00		87.6	70-130			

LCS (2447016-BS1)

Prepared: 11/18/24 Analyzed: 11/18/24

Benzene	5.45	0.0250	5.00		109	70-130			
Ethylbenzene	5.23	0.0250	5.00		105	70-130			
Toluene	5.36	0.0250	5.00		107	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			

LCS Dup (2447016-BSD1)

Prepared: 11/18/24 Analyzed: 11/18/24

Benzene	5.05	0.0250	5.00		101	70-130	7.74	20	
Ethylbenzene	4.84	0.0250	5.00		96.8	70-130	7.68	20	
Toluene	4.96	0.0250	5.00		99.1	70-130	7.83	20	
o-Xylene	4.82	0.0250	5.00		96.5	70-130	7.68	20	
p,m-Xylene	9.84	0.0500	10.0		98.4	70-130	7.74	20	
Total Xylenes	14.7	0.0250	15.0		97.8	70-130	7.72	20	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount (K)	Reported: 11/19/2024 4:49:11PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447016-BLK1)

Prepared: 11/18/24 Analyzed: 11/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

LCS (2447016-BS2)

Prepared: 11/18/24 Analyzed: 11/18/24

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS Dup (2447016-BSD2)

Prepared: 11/18/24 Analyzed: 11/18/24

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.9	70-130	2.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount (K)	Reported: 11/19/2024 4:49:11PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447022-BLK1)

Prepared: 11/19/24 Analyzed: 11/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

LCS (2447022-BS1)

Prepared: 11/19/24 Analyzed: 11/19/24

Diesel Range Organics (C10-C28)	244	25.0	250		97.6	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

LCS Dup (2447022-BSD1)

Prepared: 11/19/24 Analyzed: 11/19/24

Diesel Range Organics (C10-C28)	241	25.0	250		96.6	38-132	1.00	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount (K)	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2024 4:49:11PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2447020-BLK1)

Prepared: 11/19/24 Analyzed: 11/19/24

Chloride	ND	20.0							
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LCS (2447020-BS1)

Prepared: 11/19/24 Analyzed: 11/19/24

Chloride	259	20.0	250		103	90-110			
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LCS Dup (2447020-BSD1)

Prepared: 11/19/24 Analyzed: 11/19/24

Chloride	257	20.0	250		103	90-110	0.474	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount (K)	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/24 16:49

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.



Client: <u>Mack Energy</u>	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only		TAT			EPA Program						
Project: <u>West Macent (v)</u>		Lab WO# <u>E411178</u>	Job Number <u>200460001</u>	1D	2D	3D	Standard	CWA	SDWA				
Project Manager:		Analysis and Method							RCRA				
Address:		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX				
City, State, Zip		State							NM	CO	UT	AZ	TX
Phone:		Remarks											
City, State, Zip													
Phone:													
Email:													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	11/15/24	S	1	Sp Comp 1-2'	1							X		
				Sp Comp 2-2'	2									
				Sp Comp 3-2'	3									
				Sp Comp 4-2'	4									
				Sp Comp 5-2'	5									
				Sp Comp 6-2'	6									
				Sp Comp 7-2'	7									
				Sp Comp 8-2'	8									
				Sp Comp 9-2'	9									
	11/15/24	S	1	Sp Comp 10-2	10							X		

Additional Instructions:

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Jose K Alvarez</u>	Date <u>11/15/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-18-24</u>	Time <u>1220</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-18-24</u>	Time <u>1615</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11-18-24</u>	Time <u>1657</u>	Received on ice: <u>Y/N</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>11-18-24</u>	Time <u>2219</u>	Received by: (Signature) <u>Cathy Man</u>	Date <u>11-19-24</u>	Time <u>10:00</u>	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>

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

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



Envirotech Analytical Laboratory

Printed: 11/19/2024 8:12:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 11/19/24 06:00	Work Order ID: E411178
Phone: (575) 390-6397	Date Logged In: 11/18/24 14:13	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 11/19/24 17:00 (0 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E411161

Job Number: 20046-0001

Received: 11/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/19/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E411161
Date Received: 11/18/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2024 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/24 13:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 9-4	E411161-01A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 10-2	E411161-02A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 11-2	E411161-03A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 12-2	E411161-04A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 13-2	E411161-05A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 14-4	E411161-06A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 15-10	E411161-07A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 16-10	E411161-08A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 17-10	E411161-09A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.
SW Comp 18-10	E411161-10A	Soil	11/14/24	11/18/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 9-4
E411161-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/19/24	
Toluene	ND	0.0250	1	11/18/24	11/19/24	
o-Xylene	ND	0.0250	1	11/18/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.3 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	51.9	25.0	1	11/18/24	11/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/18/24	
<i>Surrogate: n-Nonane</i>		126 %	50-200	11/18/24	11/18/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: JM		Batch: 2447006
Chloride	803	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 10-2

E411161-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
o-Xylene	ND	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.9 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	48.9	25.0	1	11/18/24	11/18/24	
Oil Range Organics (C28-C36)	51.0	50.0	1	11/18/24	11/18/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	11/18/24	11/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	862	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 11-2

E411161-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
o-Xylene	ND	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.6 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	53.0	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	63.5	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	816	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 12-2

E411161-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
o-Xylene	ND	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.6 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	46.1	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	52.6	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	786	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 13-2

E411161-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
o-Xylene	ND	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	54.0	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 14-4

E411161-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
o-Xylene	ND	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	54.4	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 15-10

E411161-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/18/24	
Toluene	ND	0.0250	1	11/18/24	11/18/24	
o-Xylene	ND	0.0250	1	11/18/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.6 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	11/18/24	11/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	53.5	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 16-10

E411161-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/19/24	
Toluene	ND	0.0250	1	11/18/24	11/19/24	
o-Xylene	ND	0.0250	1	11/18/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.5 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	58.3	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 17-10

E411161-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/19/24	
Toluene	ND	0.0250	1	11/18/24	11/19/24	
o-Xylene	ND	0.0250	1	11/18/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>		125 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	ND	20.0	1	11/18/24	11/18/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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SW Comp 18-10

E411161-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Benzene	ND	0.0250	1	11/18/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/18/24	11/19/24	
Toluene	ND	0.0250	1	11/18/24	11/19/24	
o-Xylene	ND	0.0250	1	11/18/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/18/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/18/24	11/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.6 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2447003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/24	11/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.6 %	70-130	11/18/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2447008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/24	11/19/24	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	11/18/24	11/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447006
Chloride	ND	20.0	1	11/18/24	11/18/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 11/19/2024 1:30:28PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447003-BLK1)

Prepared: 11/18/24 Analyzed: 11/18/24

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	7.06		8.00		88.2	70-130			

LCS (2447003-BS1)

Prepared: 11/18/24 Analyzed: 11/18/24

Benzene	5.49	0.0250	5.00		110	70-130			
Ethylbenzene	5.27	0.0250	5.00		105	70-130			
Toluene	5.39	0.0250	5.00		108	70-130			
o-Xylene	5.23	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.3	70-130			

LCS Dup (2447003-BSD1)

Prepared: 11/18/24 Analyzed: 11/18/24

Benzene	5.31	0.0250	5.00		106	70-130	3.35	20	
Ethylbenzene	5.09	0.0250	5.00		102	70-130	3.39	20	
Toluene	5.21	0.0250	5.00		104	70-130	3.44	20	
o-Xylene	5.04	0.0250	5.00		101	70-130	3.65	20	
p,m-Xylene	10.3	0.0500	10.0		103	70-130	3.50	20	
Total Xylenes	15.4	0.0250	15.0		102	70-130	3.55	20	
Surrogate: 4-Bromochlorobenzene-PID	6.94		8.00		86.7	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/19/2024 1:30:28PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447003-BLK1)

Prepared: 11/18/24 Analyzed: 11/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

LCS (2447003-BS2)

Prepared: 11/18/24 Analyzed: 11/18/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.1	70-130			

LCS Dup (2447003-BSD2)

Prepared: 11/18/24 Analyzed: 11/18/24

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		83.0	70-130	3.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/19/2024 1:30:28PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447008-BLK1)

Prepared: 11/18/24 Analyzed: 11/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.7		50.0		119	50-200			

LCS (2447008-BS1)

Prepared: 11/18/24 Analyzed: 11/18/24

Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

LCS Dup (2447008-BSD1)

Prepared: 11/18/24 Analyzed: 11/18/24

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132	2.85	20	
Surrogate: n-Nonane	62.9		50.0		126	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 11/19/2024 1:30:28PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2447006-BLK1)

Prepared: 11/18/24 Analyzed: 11/18/24

Chloride	ND	20.0							
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LCS (2447006-BS1)

Prepared: 11/18/24 Analyzed: 11/18/24

Chloride	253	20.0	250		101	90-110			
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LCS Dup (2447006-BSD1)

Prepared: 11/18/24 Analyzed: 11/18/24

Chloride	253	20.0	250		101	90-110	0.0466	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/24 13:30

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mary Energy</u>	Bill To	Lab Use Only	TAT	EPA Program		
Project: <u>West Mount K</u>	Attention: <u>ENERGY STAFFING SERVICES</u>	Lab WO# <u>E411101</u>	Job Number <u>20046-0001</u>	1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>	CWA <input type="checkbox"/> SDWA <input type="checkbox"/>	
Project Manager:	Address: <u>2724 NW COUNTY RD</u>	Analysis and Method			RCRA <input type="checkbox"/>	
Address:	City, State, Zip <u>HOBBS, NM 88240</u>	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	
City, State, Zip	Phone: <u>575-393-9048</u>	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	
Phone:	Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>	State				
Email:	<u>BRITTNEY@ENERGYSTAFFINGLLC.COM</u>	NM	CO	UT	AZ	TX
Report due by:		Remarks				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	11/14/24	S	1	SWcomp 9-4	1									
				SWcomp 10-2	2									
				SWcomp 11-2	3									
				SWcomp 12-2	4									
				SWcomp 13-2	5									
				SWcomp 14-4	6									
				SWcomp 15-10	7									
				SWcomp 16-10	8									
				SWcomp 17-10	9									
	11/14/24	S	1	SWcomp 18-10	10									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: Andy Long
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Andy Long</u>	Date <u>11-14-24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-15-24</u>	Time <u>13:10</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>11-15-24</u>	Time <u>1545</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11-18-24</u>	Time <u>1700</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>11-15-24</u>	Time <u>2330</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11-18-24</u>	Time <u>8:00</u>	T1 _____ T2 _____ T3 _____
AVG Temp °C <u>4</u>						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 11/18/2024 10:09:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 11/18/24 08:00	Work Order ID: E411161
Phone: (575) 390-6397	Date Logged In: 11/15/24 14:12	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 11/19/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

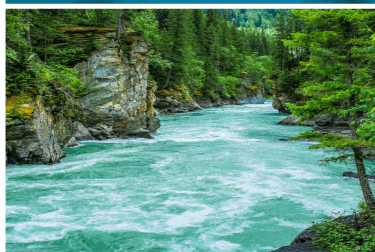
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount (K)

Work Order: E412025

Job Number: 20046-0001

Received: 12/5/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/9/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/9/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount (K)
Workorder: E412025
Date Received: 12/5/2024 6:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2024 6:15:00AM, under the Project Name: West Mount (K).

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/09/24 15:54
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp. Comp 8-6'	E412025-01A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sp. Comp 21-6'	E412025-02A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sp. Comp 32-6'	E412025-03A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sp. Comp 35-6'	E412025-04A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sp. Comp 36-6'	E412025-05A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sw. Comp 9-6'	E412025-06A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sw. Comp 10-4'	E412025-07A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sw. Comp 11-4'	E412025-08A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.
Sw. Comp 12-4'	E412025-09A	Soil	12/03/24	12/05/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sp. Comp 8-6'
E412025-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.8 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.0 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	23.8	20.0	1	12/05/24	12/06/24	

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sp. Comp 21-6'

E412025-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.8 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	3880	40.0	2	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sp. Comp 32-6'

E412025-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.8 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	606	20.0	1	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sp. Comp 35-6'

E412025-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.6 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	225	20.0	1	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sp. Comp 36-6'

E412025-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.3 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	649	40.0	2	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sw. Comp 9-6'

E412025-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.6 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	24.0	20.0	1	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sw. Comp 10-4'

E412025-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.7 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	626	20.0	1	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sw. Comp 11-4'

E412025-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.7 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.2 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		124 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	223	20.0	1	12/05/24	12/06/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Sw. Comp 12-4

E412025-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Benzene	ND	0.0250	1	12/05/24	12/05/24	
Ethylbenzene	ND	0.0250	1	12/05/24	12/05/24	
Toluene	ND	0.0250	1	12/05/24	12/05/24	
o-Xylene	ND	0.0250	1	12/05/24	12/05/24	
p,m-Xylene	ND	0.0500	1	12/05/24	12/05/24	
Total Xylenes	ND	0.0250	1	12/05/24	12/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.9 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2449073
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/24	12/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	12/05/24	12/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2449075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/24	12/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/24	12/05/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	12/05/24	12/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2449082
Chloride	3970	40.0	2	12/05/24	12/06/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2449073-BLK1)

Prepared: 12/05/24 Analyzed: 12/05/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.3	70-130			

LCS (2449073-BS1)

Prepared: 12/05/24 Analyzed: 12/05/24

Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.68	0.0250	5.00		93.6	70-130			
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130			
Total Xylenes	14.3	0.0250	15.0		95.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.86		8.00		85.8	70-130			

LCS Dup (2449073-BSD1)

Prepared: 12/05/24 Analyzed: 12/05/24

Benzene	5.58	0.0250	5.00		112	70-130	12.5	20	
Ethylbenzene	5.36	0.0250	5.00		107	70-130	13.0	20	
Toluene	5.49	0.0250	5.00		110	70-130	12.9	20	
o-Xylene	5.33	0.0250	5.00		107	70-130	13.0	20	
p,m-Xylene	10.9	0.0500	10.0		109	70-130	12.7	20	
Total Xylenes	16.2	0.0250	15.0		108	70-130	12.8	20	
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.6	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2449073-BLK1)

Prepared: 12/05/24 Analyzed: 12/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

LCS (2449073-BS2)

Prepared: 12/05/24 Analyzed: 12/05/24

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0		84.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

LCS Dup (2449073-BSD2)

Prepared: 12/05/24 Analyzed: 12/05/24

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.7	70-130	1.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount (K) Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/9/2024 3:54:05PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2449075-BLK1)

Prepared: 12/05/24 Analyzed: 12/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.9		50.0		108	50-200			

LCS (2449075-BS1)

Prepared: 12/05/24 Analyzed: 12/05/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: <i>n</i> -Nonane	52.7		50.0		105	50-200			

Matrix Spike (2449075-MS1)

Source: E412025-09

Prepared: 12/05/24 Analyzed: 12/05/24

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: <i>n</i> -Nonane	55.4		50.0		111	50-200			

Matrix Spike Dup (2449075-MSD1)

Source: E412025-09

Prepared: 12/05/24 Analyzed: 12/05/24

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	3.68	20	
Surrogate: <i>n</i> -Nonane	57.0		50.0		114	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount (K)	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/9/2024 3:54:05PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2449082-BLK1)

Prepared: 12/05/24 Analyzed: 12/06/24

Chloride	ND	20.0							
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LCS (2449082-BS1)

Prepared: 12/05/24 Analyzed: 12/06/24

Chloride	254	20.0	250		102	90-110			
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LCS Dup (2449082-BSD1)

Prepared: 12/05/24 Analyzed: 12/06/24

Chloride	254	20.0	250		102	90-110	0.163	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount (K)	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/09/24 15:54

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: <u>Mack Energy</u> Project: <u>West Mount (K)</u> Project Manager: Address: City, State, Zip Phone: Email: Report due by:				Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM				Lab Use Only Lab WOH <u>E412025</u> Job Number <u>200416-0001</u>				TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>			EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
				Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 3000 BG00C NM TG00C TX				State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>			Remarks					
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BG00C NM	TG00C TX	Remarks		
	<u>12/3/24</u>	<u>S</u>	<u>1</u>	<u>Sp Comp 8-6'</u>	<u>1</u>							<u>X</u>				
				<u>Sp Comp 20-4'</u>	<u>2</u>											
				<u>Sp Comp 32-6'</u>	<u>3</u>											
				<u>Sp Comp 35-6'</u>	<u>4</u>											
				<u>Sp Comp 36-6'</u>	<u>5</u>											
				<u>Sw Comp 9-4'</u>	<u>6</u>											
				<u>Sw Comp 10-4'</u>	<u>7</u>											
				<u>Sw Comp 11-4'</u>	<u>8</u>											
	<u>12/3/24</u>	<u>S</u>	<u>1</u>	<u>Sw Comp 12-4'</u>	<u>9</u>							<u>X</u>				
Additional Instructions: I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Joe R. Alvarez</u> Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.																
Relinquished by: (Signature) <u>[Signature]</u> Date <u>12/3/2024</u> Time <u>1345</u>				Received by: (Signature) <u>Michelle Gonzales</u> Date <u>12-4-24</u> Time <u>1600</u>				Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____								
Relinquished by: (Signature) <u>[Signature]</u> Date <u>12-4-24</u> Time <u>1600</u>				Received by: (Signature) <u>[Signature]</u> Date <u>12-4-24</u> Time <u>1600</u>				AVG Temp °C <u>4</u>								
Relinquished by: (Signature) <u>[Signature]</u> Date <u>12-4-24</u> Time <u>2210</u>				Received by: (Signature) <u>Caitlin Mar</u> Date <u>12-5-24</u> Time <u>16:15</u>				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



Envirotech Analytical Laboratory

Printed: 12/5/2024 9:59:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 12/05/24 06:15	Work Order ID: E412025
Phone: (575) 390-6397	Date Logged In: 12/04/24 15:51	Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com	Due Date: 12/06/24 17:00 (1 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
 - 8. If yes, was cooler received in good condition? Yes
 - 9. Was the sample(s) received intact, i.e., not broken? Yes
 - 10. Were custody/security seals present? No
 - 11. If yes, were custody/security seals intact? NA
 - 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

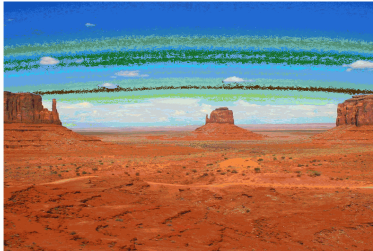
Project Information

Chain of Custody

Client: Mack Energy Project: West Mount (K) Project Manager: Address: City, State, Zip: Phone: Email: Report due by:				Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip: HORRS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM				Lab Use Only Lab WOH# E412025 Job Number 200410-0001				TAT 1D 2D 3D X				EPA Program CWA SDWA RCRA	
Analysis and Method										State NM CO UT AZ TX X							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	BGDOC TX	Remarks			
	12/3/24	S	1	Sp Comp 8-6'	1							X		Per B. Corral, change depth of sample #6.			
				Sp Comp 20-4' 6'	2									NS 12/5/24			
				Sp Comp 32-6'	3									Corrected depth on sample #2			
				Sp Comp 35-6'	4									Per B. Corral 12/9/24 CM			
				Sp Comp 36-6'	5												
				Sw Comp 9-4' 6'	6												
				Sw Comp 10-4'	7												
				Sw Comp 11-4'	8												
	12/3/24	S	1	Sw Comp 12-4'	9							X					
Additional Instructions:														I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.			
Relinquished by: (Signature) <i>[Signature]</i> Date: 12/3/2024 Time: 1345														Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature) <i>[Signature]</i> Date: 12-4-24 Time: 1600														T1 _____ T2 _____ T3 _____			
Relinquished by: (Signature) <i>[Signature]</i> Date: 12-4-24 Time: 2210														AVG Temp °C <u>4</u>			
Sample Matrix: <input checked="" type="checkbox"/> Soil, <input type="checkbox"/> Sd - Solid, <input type="checkbox"/> Sg - Sludge, <input type="checkbox"/> A - Aqueous, <input type="checkbox"/> O - Other														Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E412074

Job Number: 20046-0001

Received: 12/11/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/12/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 12/12/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E412074
Date Received: 12/11/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/11/2024 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/24 09:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. Comp 17-6'	E412074-01A	Soil	12/09/24	12/11/24	Glass Jar, 2 oz.
SP. Comp 21-8'	E412074-02A	Soil	12/09/24	12/11/24	Glass Jar, 2 oz.
SP. Comp 33-6'	E412074-03A	Soil	12/09/24	12/11/24	Glass Jar, 2 oz.
SP. Comp 37-8'	E412074-04A	Soil	12/09/24	12/11/24	Glass Jar, 2 oz.
SP. Comp 38-6'	E412074-05A	Soil	12/09/24	12/11/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/2024 9:52:10AM
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SP. Comp 17-6'
E412074-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2450048	
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.4 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2450048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450051	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2450052	
Chloride	231	20.0	1	12/11/24	12/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/2024 9:52:10AM
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SP. Comp 21-8'

E412074-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2450051
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2450052
Chloride	235	20.0	1	12/11/24	12/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/2024 9:52:10AM
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SP. Comp 33-6'

E412074-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2450051
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>		124 %	50-200	12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2450052
Chloride	133	20.0	1	12/11/24	12/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/2024 9:52:10AM
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SP. Comp 37-8'

E412074-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.1 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2450051
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2450052
Chloride	555	20.0	1	12/11/24	12/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/2024 9:52:10AM
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SP. Comp 38-6'

E412074-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Benzene	ND	0.0250	1	12/11/24	12/11/24	
Ethylbenzene	ND	0.0250	1	12/11/24	12/11/24	
Toluene	ND	0.0250	1	12/11/24	12/11/24	
o-Xylene	ND	0.0250	1	12/11/24	12/11/24	
p,m-Xylene	ND	0.0500	1	12/11/24	12/11/24	
Total Xylenes	ND	0.0250	1	12/11/24	12/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2450048
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/24	12/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	12/11/24	12/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2450051
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/24	12/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/24	12/11/24	
<i>Surrogate: n-Nonane</i>		128 %	50-200	12/11/24	12/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2450052
Chloride	749	40.0	2	12/11/24	12/11/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/12/2024 9:52:10AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450048-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

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	10.2		8.00		127	70-130			

LCS (2450048-BS1)

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.13	0.0250	5.00		82.6	70-130			
Ethylbenzene	4.00	0.0250	5.00		79.9	70-130			
Toluene	4.08	0.0250	5.00		81.6	70-130			
o-Xylene	3.99	0.0250	5.00		79.8	70-130			
p,m-Xylene	8.15	0.0500	10.0		81.5	70-130			
Total Xylenes	12.1	0.0250	15.0		80.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	10.1		8.00		126	70-130			

LCS Dup (2450048-BSD1)

Prepared: 12/10/24 Analyzed: 12/11/24

Benzene	4.14	0.0250	5.00		82.8	70-130	0.196	20	
Ethylbenzene	4.02	0.0250	5.00		80.4	70-130	0.525	20	
Toluene	4.09	0.0250	5.00		81.9	70-130	0.324	20	
o-Xylene	4.01	0.0250	5.00		80.2	70-130	0.403	20	
p,m-Xylene	8.18	0.0500	10.0		81.8	70-130	0.467	20	
Total Xylenes	12.2	0.0250	15.0		81.3	70-130	0.446	20	
Surrogate: 4-Bromochlorobenzene-PID	10.1		8.00		127	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/12/2024 9:52:10AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450048-BLK1)

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.19		8.00		115	70-130			

LCS (2450048-BS2)

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.49		8.00		119	70-130			

LCS Dup (2450048-BSD2)

Prepared: 12/10/24 Analyzed: 12/11/24

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.4	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.42		8.00		118	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/12/2024 9:52:10AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450051-BLK1)

Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.2		50.0		126	50-200			

LCS (2450051-BS1)

Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	286	25.0	250		114	38-132			
Surrogate: n-Nonane	60.0		50.0		120	50-200			

Matrix Spike (2450051-MS1)

Source: E412075-05

Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	60.6		50.0		121	50-200			

Matrix Spike Dup (2450051-MSD1)

Source: E412075-05

Prepared: 12/11/24 Analyzed: 12/11/24

Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	2.09	20	
Surrogate: n-Nonane	60.1		50.0		120	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/12/2024 9:52:10AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450052-BLK1)

Prepared: 12/11/24 Analyzed: 12/11/24

Chloride	ND	20.0							
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LCS (2450052-BS1)

Prepared: 12/11/24 Analyzed: 12/11/24

Chloride	256	20.0	250		102	90-110			
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LCS Dup (2450052-BSD1)

Prepared: 12/11/24 Analyzed: 12/11/24

Chloride	257	20.0	250		103	90-110	0.325	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/12/24 09:52

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.



Client: <u>Mack Energy</u>	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM	Lab Use Only				TAT				EPA Program				
Project: <u>West Mount K</u>		Lab WO# <u>E412074</u>	Job Number <u>20046-0001</u>			1D	2D	3D	Standard	CWA	SDWA			
Project Manager:		Analysis and Method												
Address:		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
City, State, Zip										NM	CO	UT	AZ	TX
Phone:														
Email:									Remarks					
Report due by:														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/09	S	1	SP Comp 17-6'	1							✓		
	12/09	S	1	SP Comp 21-8'	2							✓		
	12/09	S	1	SP Comp 33-6'	3							✓		
	12/09	S	1	SP Comp 37-8'	4							✓		
	12/09	S	1	SP Comp 38-6'	5							✓		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>S. Perez</i>	12/09/24		<i>Sandra Perez</i>	12-10-24	1315	
<i>[Signature]</i>	12-10-24	1645	<i>Judith M.</i>	12-10-24	1700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Judith M.</i>	12-10-24	2400	<i>Carth M.</i>	12-11-24	8:00	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 12/11/2024 8:59:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 12/11/24 08:00 Work Order ID: E412074
Phone: (575) 390-6397 Date Logged In: 12/10/24 13:55 Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com Due Date: 12/12/24 17:00 (1 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

[Empty box for client instruction]

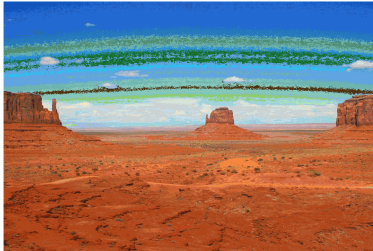
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill K

Work Order: E412082

Job Number: 20046-0001

Received: 12/12/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 12/13/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill K
Workorder: E412082
Date Received: 12/12/2024 8:00:00AM

Natalie Gladden,

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

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/13/24 14:54
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 10B-6'	E412082-01A	Soil	12/10/24	12/12/24	Glass Jar, 2 oz.
SW Comp 12B-6'	E412082-02A	Soil	12/10/24	12/12/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/13/2024 2:54:07PM
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SW Comp 10B-6'

E412082-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2450064	
Benzene	ND	0.0250	1	12/12/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/12/24	12/12/24	
Toluene	ND	0.0250	1	12/12/24	12/12/24	
o-Xylene	ND	0.0250	1	12/12/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/12/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/12/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.6 %	70-130	12/12/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2450064	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.9 %	70-130	12/12/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2450066	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/24	12/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/24	12/12/24	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	12/12/24	12/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2450068	
Chloride	440	20.0	1	12/12/24	12/12/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/13/2024 2:54:07PM
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SW Comp 12B-6'

E412082-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2450064
Benzene	ND	0.0250	1	12/12/24	12/12/24	
Ethylbenzene	ND	0.0250	1	12/12/24	12/12/24	
Toluene	ND	0.0250	1	12/12/24	12/12/24	
o-Xylene	ND	0.0250	1	12/12/24	12/12/24	
p,m-Xylene	ND	0.0500	1	12/12/24	12/12/24	
Total Xylenes	ND	0.0250	1	12/12/24	12/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.5 %	70-130	12/12/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2450064
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/24	12/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	12/12/24	12/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2450066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/24	12/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/24	12/12/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	12/12/24	12/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2450068
Chloride	156	20.0	1	12/12/24	12/12/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/13/2024 2:54:07PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450064-BLK1)

Prepared: 12/11/24 Analyzed: 12/12/24

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	7.09		8.00		88.6	70-130			

LCS (2450064-BS1)

Prepared: 12/11/24 Analyzed: 12/12/24

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	4.97	0.0250	5.00		99.5	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.2	70-130			

LCS Dup (2450064-BSD1)

Prepared: 12/11/24 Analyzed: 12/12/24

Benzene	5.41	0.0250	5.00		108	70-130	6.47	20	
Ethylbenzene	5.32	0.0250	5.00		106	70-130	6.47	20	
Toluene	5.40	0.0250	5.00		108	70-130	6.36	20	
o-Xylene	5.32	0.0250	5.00		106	70-130	6.82	20	
p,m-Xylene	10.8	0.0500	10.0		108	70-130	6.21	20	
Total Xylenes	16.1	0.0250	15.0		108	70-130	6.41	20	
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill K	Reported: 12/13/2024 2:54:07PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450064-BLK1)

Prepared: 12/11/24 Analyzed: 12/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2450064-BS2)

Prepared: 12/11/24 Analyzed: 12/12/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS Dup (2450064-BSD2)

Prepared: 12/11/24 Analyzed: 12/12/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0		88.4	70-130	1.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/13/2024 2:54:07PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450066-BLK1)

Prepared: 12/12/24 Analyzed: 12/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.9		50.0		120	50-200			

LCS (2450066-BS1)

Prepared: 12/12/24 Analyzed: 12/12/24

Diesel Range Organics (C10-C28)	256	25.0	250		103	38-132			
Surrogate: n-Nonane	58.1		50.0		116	50-200			

LCS Dup (2450066-BSD1)

Prepared: 12/12/24 Analyzed: 12/12/24

Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132	0.918	20	
Surrogate: n-Nonane	53.5		50.0		107	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill K	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/13/2024 2:54:07PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2450068-BLK1)

Prepared: 12/12/24 Analyzed: 12/12/24

Chloride	ND	20.0							
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LCS (2450068-BS1)

Prepared: 12/12/24 Analyzed: 12/12/24

Chloride	256	20.0	250		102	90-110			
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LCS Dup (2450068-BSD1)

Prepared: 12/12/24 Analyzed: 12/12/24

Chloride	256	20.0	250		103	90-110	0.218	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/13/24 14:54

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Magik Energy</u> Project: <u>WEST MOUNT W</u> Project Manager: Address: City, State, Zip Phone: Email: Report due by:	Bill To		Lab Use Only				TAT				EPA Program			
	Attention: ENERGY STAFFING SERVICES		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA		
	Address: 2724 NW COUNTY RD		<u>E47082</u>	<u>20046-000</u>				<input checked="" type="checkbox"/>						
	City, State, Zip HOBBS, NM 88240		Analysis and Method										RCRA	
Phone: 575-393-9048		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
Email: NATALIE@ENERGYSTAFFINGLLC.COM										NM	CO	UT	AZ	TX
Email: BRITTNEY@ENERGYSTAFFINGLLC.COM												Remarks		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/10	S	1	SW. Comp. 10 B - 6'	1							<input checked="" type="checkbox"/>		
	12/10	S	1	SW. Comp. 12 B - 6'	2							<input checked="" type="checkbox"/>		

Additional Instructions:

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

Relinquished by: (Signature) <u>S. Perez</u>	Date <u>12/10/24</u>	Time	Received by: (Signature) <u>Michelle Gonzalez</u>	Date <u>12-11-24</u>	Time <u>1215</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzalez</u>	Date <u>12-11-24</u>	Time <u>1600</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>12-11-24</u>	Time <u>1600</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>12-11-24</u>	Time <u>21:46</u>	Received by: (Signature) <u>Caitlin Mann</u>	Date <u>12-12-24</u>	Time <u>800</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 12/12/2024 9:51:59AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 12/12/24 08:00	Work Order ID: E412082
Phone: (575) 390-6397	Date Logged In: 12/11/24 15:26	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 12/13/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

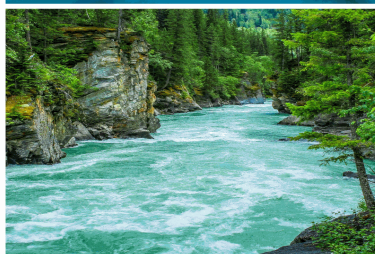
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E412100

Job Number: 20046-0001

Received: 12/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/16/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/16/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount K
Workorder: E412100
Date Received: 12/13/2024 8:00:04AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/13/2024 8:00:04AM, under the Project Name: West Mount K.

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

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

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

Respectfully,

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/16/24 12:09
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sp comp 28A-6	E412100-01A	Soil	12/11/24	12/13/24	Glass Jar, 2 oz.
Sp comp 32-B-8	E412100-02A	Soil	12/11/24	12/13/24	Glass Jar, 2 oz.
Sp comp 36B-8	E412100-03A	Soil	12/11/24	12/13/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/16/2024 12:09:37PM
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Sp comp 28A-6
E412100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2450126
Benzene	ND	0.0250	1	12/13/24	12/14/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/14/24	
Toluene	ND	0.0250	1	12/13/24	12/14/24	
o-Xylene	ND	0.0250	1	12/13/24	12/14/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/14/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		82.6 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2450126
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.2 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450123
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
<i>Surrogate: n-Nonane</i>						
		127 %	50-200	12/13/24	12/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450122
Chloride	329	200	10	12/13/24	12/14/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/16/2024 12:09:37PM
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Sp comp 32-B-8

E412100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2450126
Benzene	ND	0.0250	1	12/13/24	12/14/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/14/24	
Toluene	ND	0.0250	1	12/13/24	12/14/24	
o-Xylene	ND	0.0250	1	12/13/24	12/14/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/14/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		81.5 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2450126
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450123
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	12/13/24	12/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450122
Chloride	97.7	20.0	1	12/13/24	12/14/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/16/2024 12:09:37PM
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Sp comp 36B-8

E412100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2450126
Benzene	ND	0.0250	1	12/13/24	12/14/24	
Ethylbenzene	ND	0.0250	1	12/13/24	12/14/24	
Toluene	ND	0.0250	1	12/13/24	12/14/24	
o-Xylene	ND	0.0250	1	12/13/24	12/14/24	
p,m-Xylene	ND	0.0500	1	12/13/24	12/14/24	
Total Xylenes	ND	0.0250	1	12/13/24	12/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		81.7 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2450126
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/13/24	12/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	12/13/24	12/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2450123
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/24	12/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/24	12/14/24	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	12/13/24	12/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2450122
Chloride	82.7	20.0	1	12/13/24	12/14/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/16/2024 12:09:37PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450126-BLK1)

Prepared: 12/13/24 Analyzed: 12/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.6	70-130			

LCS (2450126-BS1)

Prepared: 12/13/24 Analyzed: 12/14/24

Benzene	4.99	0.0250	5.00		99.8	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.9	70-130			
Toluene	4.89	0.0250	5.00		97.7	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.65		8.00		83.1	70-130			

LCS Dup (2450126-BSD1)

Prepared: 12/13/24 Analyzed: 12/14/24

Benzene	5.05	0.0250	5.00		101	70-130	1.24	20	
Ethylbenzene	4.80	0.0250	5.00		96.0	70-130	1.23	20	
Toluene	4.95	0.0250	5.00		99.0	70-130	1.27	20	
o-Xylene	4.78	0.0250	5.00		95.6	70-130	0.965	20	
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130	1.10	20	
Total Xylenes	14.5	0.0250	15.0		96.7	70-130	1.06	20	
Surrogate: 4-Bromochlorobenzene-PID	6.70		8.00		83.8	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/16/2024 12:09:37PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450126-BLK1)

Prepared: 12/13/24 Analyzed: 12/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

LCS (2450126-BS2)

Prepared: 12/13/24 Analyzed: 12/14/24

Gasoline Range Organics (C6-C10)	38.3	20.0	50.0		76.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			

LCS Dup (2450126-BSD2)

Prepared: 12/13/24 Analyzed: 12/14/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		83.9	70-130	9.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		8.00		99.8	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/16/2024 12:09:37PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450123-BLK1)

Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.0		50.0		118	50-200			

LCS (2450123-BS1)

Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike (2450123-MS1)

Source: E412100-03

Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			

Matrix Spike Dup (2450123-MSD1)

Source: E412100-03

Prepared: 12/13/24 Analyzed: 12/14/24

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132	1.80	20	
Surrogate: n-Nonane	57.6		50.0		115	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/16/2024 12:09:37PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2450122-BLK1)

Prepared: 12/13/24 Analyzed: 12/13/24

Chloride	ND	20.0							
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LCS (2450122-BS1)

Prepared: 12/13/24 Analyzed: 12/13/24

Chloride	254	20.0	250		102	90-110			
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LCS Dup (2450122-BSD1)

Prepared: 12/13/24 Analyzed: 12/13/24

Chloride	254	20.0	250		102	90-110	0.00590	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/16/24 12:09

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.



Project Information

Chain of Custody

Client: <u>Mall Energy</u> Project: <u>Westmount</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:	Bill To		Lab Use Only				TAT				EPA Program					
	Attention: ENERGY STAFFING SERVICES		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA				
	Address: 2724 NW COUNTY RD		<u>E42100</u>	<u>20046.000</u>				<input checked="" type="checkbox"/>								
	City, State, Zip HOBBS, NM 88240		Analysis and Method													
Phone: 575-393-9048		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State						
Email: NATALIE@ENERGYSTAFFINGLLC.COM												NM	CO	UT	AZ	TX
BRITTNEY@ENERGYSTAFFINGLLC.COM												Remarks				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	<u>12/11/24</u>	<u>S</u>	<u>1</u>	<u>Spcomp 28A-06</u>	<u>1</u>							<input checked="" type="checkbox"/>		
	<u>12/11/24</u>	<u>1</u>	<u>1</u>	<u>Spcomp 32-B-08</u>	<u>2</u>							<input checked="" type="checkbox"/>		
	<u>12/11/24</u>	<u>S</u>	<u>1</u>	<u>Spcomp 36B-08</u>	<u>3</u>							<input checked="" type="checkbox"/>		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Sampled by: Andy Tonga

Relinquished by: (Signature) <u>Andy Tonga</u>	Date <u>12/11/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>12-12-24</u>	Time <u>1315</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>12-12-24</u>	Time <u>[scribble]</u>	Received by: (Signature) <u>John H.</u>	Date <u>12-12-24</u>	Time <u>1613</u>	
Relinquished by: (Signature) <u>John H.</u>	Date <u>12-12-24</u>	Time <u>2245</u>	Received by: (Signature) <u>Caitlin Mann</u>	Date <u>12/13/24</u>	Time <u>800</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



Envirotech Analytical Laboratory

Printed: 12/13/2024 10:32:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 12/13/24 08:00 Work Order ID: E412100
Phone: (575) 390-6397 Date Logged In: 12/12/24 15:02 Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com Due Date: 12/16/24 17:00 (1 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

Comments/Resolution

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

Sample Turn Around Time (TAT)

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

Sample Cooler

- 7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6±2°C? Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E412127

Job Number: 20046-0001

Received: 12/17/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 12/20/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E412127
Date Received: 12/17/2024 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/17/2024 7:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/20/24 09:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 38B-8'	E412127-01A	Soil	12/13/24	12/17/24	Glass Jar, 2 oz.
SP Comp 48-16'	E412127-02A	Soil	12/13/24	12/17/24	Glass Jar, 2 oz.
SP Comp 49-16'	E412127-03A	Soil	12/13/24	12/17/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/20/2024 9:40:45AM
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SP Comp 38B-8'
E412127-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2451024	
Benzene	ND	0.0250	1	12/17/24	12/17/24	
Ethylbenzene	ND	0.0250	1	12/17/24	12/17/24	
Toluene	ND	0.0250	1	12/17/24	12/17/24	
o-Xylene	ND	0.0250	1	12/17/24	12/17/24	
p,m-Xylene	ND	0.0500	1	12/17/24	12/17/24	
Total Xylenes	ND	0.0250	1	12/17/24	12/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.8 %	70-130	12/17/24	12/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2451024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/17/24	12/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	12/17/24	12/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2451025	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/17/24	12/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/17/24	12/17/24	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	12/17/24	12/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2451023	
Chloride	75.5	20.0	1	12/17/24	12/17/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/20/2024 9:40:45AM
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SP Comp 48-16'

E412127-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2451024
Benzene	ND	0.0250	1	12/17/24	12/17/24	
Ethylbenzene	ND	0.0250	1	12/17/24	12/17/24	
Toluene	ND	0.0250	1	12/17/24	12/17/24	
o-Xylene	ND	0.0250	1	12/17/24	12/17/24	
p,m-Xylene	ND	0.0500	1	12/17/24	12/17/24	
Total Xylenes	ND	0.0250	1	12/17/24	12/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.1 %	70-130	12/17/24	12/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2451024
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/17/24	12/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	12/17/24	12/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2451025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/17/24	12/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/17/24	12/17/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	12/17/24	12/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2451023
Chloride	62.2	20.0	1	12/17/24	12/17/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/20/2024 9:40:45AM
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SP Comp 49-16'

E412127-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2451024
Benzene	ND	0.0250	1	12/17/24	12/17/24	
Ethylbenzene	ND	0.0250	1	12/17/24	12/17/24	
Toluene	ND	0.0250	1	12/17/24	12/17/24	
o-Xylene	ND	0.0250	1	12/17/24	12/17/24	
p,m-Xylene	ND	0.0500	1	12/17/24	12/17/24	
Total Xylenes	ND	0.0250	1	12/17/24	12/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.2 %	70-130	12/17/24	12/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2451024
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/17/24	12/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	12/17/24	12/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2451025
Diesel Range Organics (C10-C28)	ND	25.0	1	12/17/24	12/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/17/24	12/17/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	12/17/24	12/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2451023
Chloride	89.2	20.0	1	12/17/24	12/17/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/20/2024 9:40:45AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451024-BLK1)

Prepared: 12/17/24 Analyzed: 12/17/24

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	7.12		8.00		89.0	70-130			

LCS (2451024-BS1)

Prepared: 12/17/24 Analyzed: 12/17/24

Benzene	4.73	0.0250	5.00		94.5	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.0	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.58	0.0250	5.00		91.7	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.2	70-130			

LCS Dup (2451024-BSD1)

Prepared: 12/17/24 Analyzed: 12/17/24

Benzene	4.88	0.0250	5.00		97.6	70-130	3.24	20	
Ethylbenzene	4.75	0.0250	5.00		95.1	70-130	3.33	20	
Toluene	4.84	0.0250	5.00		96.9	70-130	3.43	20	
o-Xylene	4.74	0.0250	5.00		94.9	70-130	3.43	20	
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130	3.33	20	
Total Xylenes	14.4	0.0250	15.0		96.0	70-130	3.36	20	
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.3	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/20/2024 9:40:45AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451024-BLK1)

Prepared: 12/17/24 Analyzed: 12/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

LCS (2451024-BS2)

Prepared: 12/17/24 Analyzed: 12/17/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			

LCS Dup (2451024-BSD2)

Prepared: 12/17/24 Analyzed: 12/17/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130	11.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/20/2024 9:40:45AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2451025-BLK1)

Prepared: 12/17/24 Analyzed: 12/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.5		50.0		121	50-200			

LCS (2451025-BS1)

Prepared: 12/17/24 Analyzed: 12/17/24

Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

LCS Dup (2451025-BSD1)

Prepared: 12/17/24 Analyzed: 12/17/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132	3.18	20	
Surrogate: n-Nonane	60.7		50.0		121	50-200			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 12/20/2024 9:40:45AM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451023-BLK1)

Prepared: 12/17/24 Analyzed: 12/17/24

Chloride	ND	20.0							
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LCS (2451023-BS1)

Prepared: 12/17/24 Analyzed: 12/17/24

Chloride	256	20.0	250		103	90-110			
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LCS Dup (2451023-BSD1)

Prepared: 12/17/24 Analyzed: 12/17/24

Chloride	257	20.0	250		103	90-110	0.181	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount K	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/24 09:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mack Energy</u>	Bill To	Lab Use Only		TAT			EPA Program		
Project: <u>West Mount K</u>	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager:	Address: 2724 NW COUNTY RD	<u>E412127</u>	<u>26040-0001</u>		<input checked="" type="checkbox"/>				
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							RCRA
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM	State							
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM	NM CO UT AZ TX							
Report due by:		Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/13/24	S	1	Soloma 38'B-8'	1							<input checked="" type="checkbox"/>		
	1	1	1	Soloma 47-10'	2									
	12/15/24	S	1	Soloma 48-10'	3							<input checked="" type="checkbox"/>		

Additional Instructions:

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

Relinquished by: (Signature) <u>[Signature]</u>				Date	Time	Received by: (Signature) <u>[Signature]</u>		Date	Time	Lab Use Only	
Relinquished by: (Signature) <u>Michelle Gonzales</u>				12-15-24		Received by: (Signature) <u>Michelle Gonzales</u>		12-16-24	1410	Received on ice: <input checked="" type="checkbox"/> Y / N	
Relinquished by: (Signature) <u>[Signature]</u>				12-16-24	1640	Received by: (Signature) <u>[Signature]</u>		12-16-24	1700	T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature) <u>[Signature]</u>				12-16-24	2400	Received by: (Signature) <u>Rana Lehmann</u>		12/17/24	7:00	AVG Temp °C <u>4</u>	

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



Envirotech Analytical Laboratory

Printed: 12/17/2024 7:51:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 12/17/24 07:00	Work Order ID: E412127
Phone: (575) 390-6397	Date Logged In: 12/16/24 15:05	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 12/18/24 17:00 (1 day TAT)	

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Client: Mack Energy
 Project: West Mount K
 Project Manager:
 Address:
 City, State, Zip
 Phone:
 Email:
 Report due by:

Bill To
 Attention: ENERGY STAFFING SERVICES
 Address: 2724 NW COUNTY RD
 City, State, Zip HOBBS, NM 88240
 Phone: 575-393-9048
 Email: NATALIE@ENERGYSTAFFINGLLC.COM
 BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
 Lab W/O# E91272 Job Number 2040 0001
 TAT: 1D 2D 3D
 EPA Program: CWA SDWA RCRA

Analysis and Method
 DRO/DRO by 8015
 GRO/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Metals 6010
 Chloride 300.0
 BGDOC NM
 BGDOC TX
 State: NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/13/24	S	1	Delona 38 B-8'	1							X		Name changes per B. Carroll 12/13/24. RAB.
	1	1	1	Delona 47 10' SpComp 48 16'	2							1		
	12/15/24	S	1	Delona 48 10' SpComp 49 16'	3							X		

Additional Instructions:

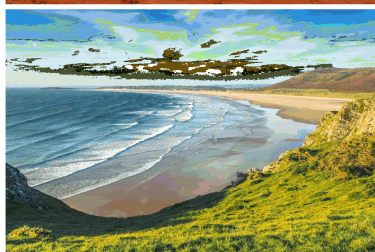
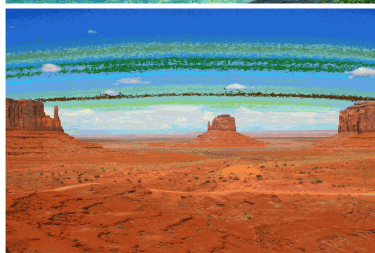
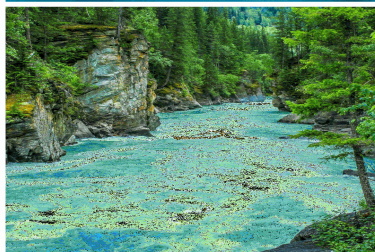
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. *Susan R. Alvarez*
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>Susan R. Alvarez</i>	Date	Time	Received by: (Signature) <i>Michelle Gonzales</i>	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	12-15-24		Received by: (Signature) <i>Michelle Gonzales</i>	12-16-24	1410	
Relinquished by: (Signature) <i>Michelle Gonzales</i>	12-16-24	1640	Received by: (Signature) <i>Rana Schmann</i>	12-16-24	1700	
Relinquished by: (Signature) <i>Michelle Gonzales</i>	12-16-24	2400	Received by: (Signature) <i>Rana Schmann</i>	12/17/24	7:00	

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



Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E507334

Job Number: 20046-0001

Received: 7/30/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/31/25

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210



Project Name: West Mount K
Workorder: E507334
Date Received: 7/30/2025 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/30/2025 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

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

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/31/25 13:06
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP 1- SURF	E507334-01A	Soil	07/27/25	07/30/25	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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BACKFILL COMP 1- SURF
E507334-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2531080
Benzene	ND	0.0250	1	07/30/25	07/31/25	
Ethylbenzene	ND	0.0250	1	07/30/25	07/31/25	
Toluene	ND	0.0250	1	07/30/25	07/31/25	
o-Xylene	ND	0.0250	1	07/30/25	07/31/25	
p,m-Xylene	ND	0.0500	1	07/30/25	07/31/25	
Total Xylenes	ND	0.0250	1	07/30/25	07/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.6 %	70-130	07/30/25	07/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2531080
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/25	07/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.6 %	70-130	07/30/25	07/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2531078
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/25	07/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/25	07/30/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	07/30/25	07/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2531093
Chloride	ND	20.0	1	07/30/25	07/30/25	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531080-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

LCS (2531080-BS1)

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	5.46	0.0250	5.00		109	70-130			
Ethylbenzene	5.41	0.0250	5.00		108	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.38	0.0250	5.00		108	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike (2531080-MS1)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	25.7	0.125	25.0	ND	103	70-130			
Ethylbenzene	25.7	0.125	25.0	0.149	102	70-130			
Toluene	25.6	0.125	25.0	ND	102	70-130			
o-Xylene	25.4	0.125	25.0	0.219	101	70-130			
p,m-Xylene	52.1	0.250	50.0	0.372	103	70-130			
Total Xylenes	77.5	0.125	75.0	0.591	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	43.8		40.0		109	70-130			

Matrix Spike Dup (2531080-MSD1)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	27.0	0.125	25.0	ND	108	70-130	5.17	27	
Ethylbenzene	26.9	0.125	25.0	0.149	107	70-130	4.81	26	
Toluene	26.9	0.125	25.0	ND	108	70-130	5.00	20	
o-Xylene	26.7	0.125	25.0	0.219	106	70-130	4.93	25	
p,m-Xylene	54.5	0.250	50.0	0.372	108	70-130	4.56	23	
Total Xylenes	81.2	0.125	75.0	0.591	108	70-130	4.68	26	
Surrogate: 4-Bromochlorobenzene-PID	42.8		40.0		107	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531080-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			

LCS (2531080-BS2)

Prepared: 07/30/25 Analyzed: 07/30/25

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		8.00		102	70-130			

Matrix Spike (2531080-MS2)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/31/25

Gasoline Range Organics (C6-C10)	312	100	250	ND	125	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	41.0		40.0		103	70-130			

Matrix Spike Dup (2531080-MSD2)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/30/25

Gasoline Range Organics (C6-C10)	307	100	250	ND	123	70-130	1.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	39.1		40.0		97.7	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531078-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	61-141			

LCS (2531078-BS1)

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	295	25.0	250		118	66-144			
Surrogate: n-Nonane	51.9		50.0		104	61-141			

Matrix Spike (2531078-MS1)

Source: E507315-01

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	316	25.0	250	ND	127	56-156			
Surrogate: n-Nonane	54.9		50.0		110	61-141			

Matrix Spike Dup (2531078-MSD1)

Source: E507315-01

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	56-156	2.14	20	
Surrogate: n-Nonane	54.3		50.0		109	61-141			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531093-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	ND	20.0							
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LCS (2531093-BS1)

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	249	20.0	250		99.7	90-110			
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Matrix Spike (2531093-MS1)

Source: E507318-05

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	6360	100	250	5990	148	80-120			M4
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Matrix Spike Dup (2531093-MSD1)

Source: E507318-05

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	6370	100	250	5990	151	80-120	0.122	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/31/25 13:06
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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.



Envirotech Analytical Laboratory

Printed: 7/30/2025 9:31:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/30/25 08:00	Work Order ID: E507334
Phone: (575) 390-6397	Date Logged In: 07/29/25 13:59	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 07/31/25 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
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

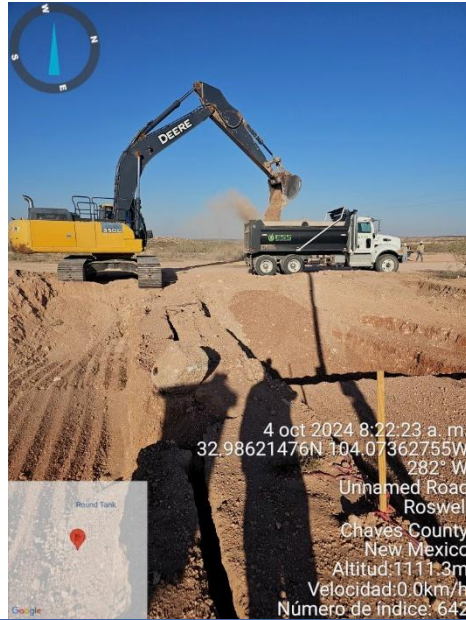
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

**MACK ENERGY CORPORATION
WST MOUNT SPILL K
REMEDATION**

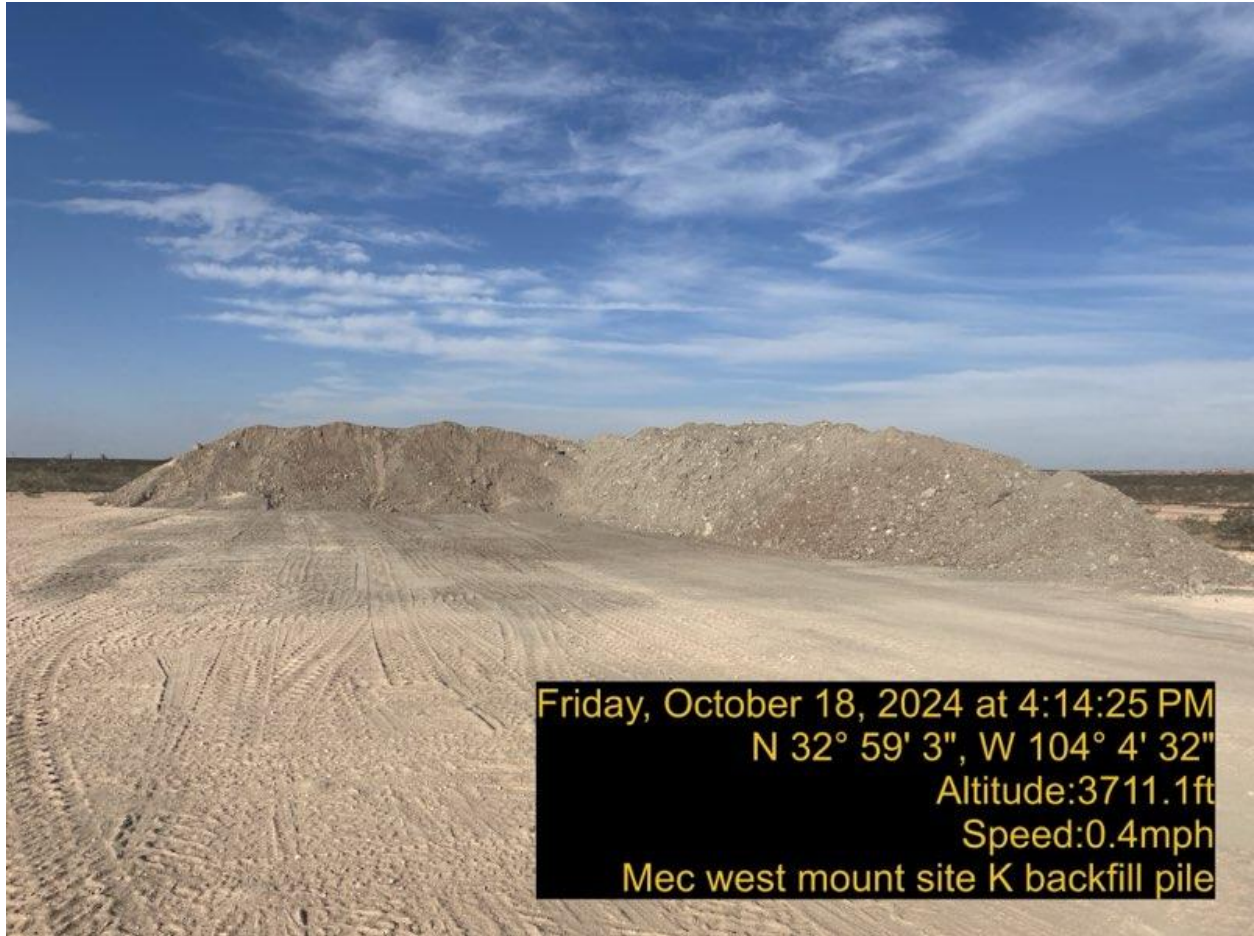
































































Tuesday, October 15, 2024 at 4:23:11 PM
N 32° 59' 54", W 104° 4' 16"
Altitude:3732.9ft
Speed:0.4mph
Mec west mount site B fill pile



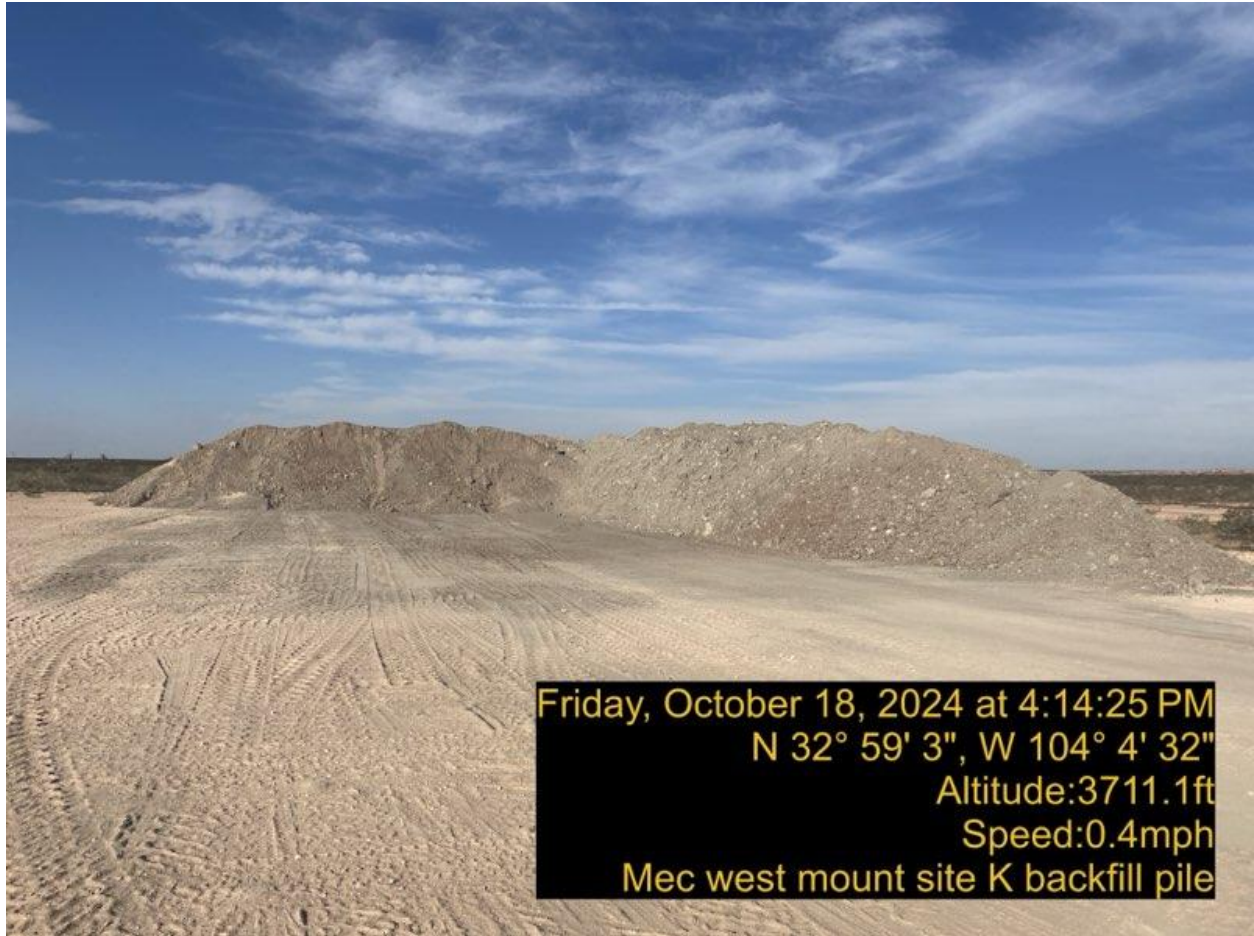
Wednesday, October 16, 2024 at 4:33:35 PM
N 32° 59' 9", W 104° 4' 25"
Altitude:3717.8ft
Speed:3.6mph
Mec west mount site k cont.

























**MACK ENERGY CORPORATION
WEST MOUNT SPILL K
RECLAMATION EXECUTIVE SUMMARY
INCIDENT NO. NAPP2329852272**

**API NO. 30-005-64381
UNIT LETTER G, SECTION 30, TOWNSHIP 15S, RANGE 29E
CHAVES COUNTY, NEW MEXICO**

Reclamation Executive Summary

Subject: Final Reclamation Summary-West Mount Spill K (Incident No. NAPP2329855272)

On January 15, 2025 ESS initiated and completed reclamation activities at the West Mount Spill K site following the finalization of remediation efforts for the release that occurred on September 21, 2023 (Incident Number: NAPP2329855272).

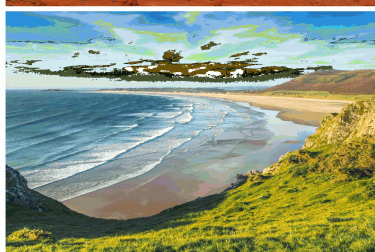
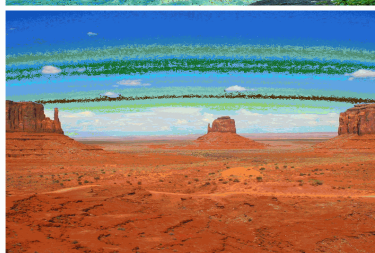
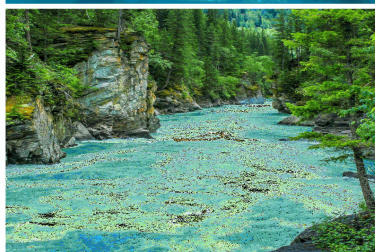
A total of 492 cubic yards of topsoil was loaded and hauled from Mack Energy's Bogel Pit. The topsoil was evenly spread across the entire 10548 square-foot impacted area. The site was then ripped, contoured, and sloped to match the natural grade. Reseeding was conducted using the Sandy Loam Seed Mix from Curtis and Curtis Seed, which covered the excavation area and disturbed area used for remediation and reclamation efforts consisting of 10,548 square-foot in accordance with State Land Office (SLO) Rules and Regulations.

A five-point composite was taken from the center of the excavation/backfill area located at 32.986244 -104.073438. 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 K 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.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount K

Work Order: E507334

Job Number: 20046-0001

Received: 7/30/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 7/31/25

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount K
Workorder: E507334
Date Received: 7/30/2025 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/30/2025 8:00:00AM, under the Project Name: West Mount K.

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

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

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

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

Respectfully,

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

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

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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/31/25 13:06
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP 1- SURF	E507334-01A	Soil	07/27/25	07/30/25	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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**BACKFILL COMP 1- SURF
E507334-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2531080
Benzene	ND	0.0250	1	07/30/25	07/31/25	
Ethylbenzene	ND	0.0250	1	07/30/25	07/31/25	
Toluene	ND	0.0250	1	07/30/25	07/31/25	
o-Xylene	ND	0.0250	1	07/30/25	07/31/25	
p,m-Xylene	ND	0.0500	1	07/30/25	07/31/25	
Total Xylenes	ND	0.0250	1	07/30/25	07/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	07/30/25	07/31/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2531080
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/25	07/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.6 %	70-130	07/30/25	07/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2531078
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/25	07/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/25	07/30/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	07/30/25	07/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2531093
Chloride	ND	20.0	1	07/30/25	07/30/25	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531080-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

LCS (2531080-BS1)

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	5.46	0.0250	5.00		109	70-130			
Ethylbenzene	5.41	0.0250	5.00		108	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.38	0.0250	5.00		108	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike (2531080-MS1)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	25.7	0.125	25.0	ND	103	70-130			
Ethylbenzene	25.7	0.125	25.0	0.149	102	70-130			
Toluene	25.6	0.125	25.0	ND	102	70-130			
o-Xylene	25.4	0.125	25.0	0.219	101	70-130			
p,m-Xylene	52.1	0.250	50.0	0.372	103	70-130			
Total Xylenes	77.5	0.125	75.0	0.591	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	43.8		40.0		109	70-130			

Matrix Spike Dup (2531080-MSD1)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/30/25

Benzene	27.0	0.125	25.0	ND	108	70-130	5.17	27	
Ethylbenzene	26.9	0.125	25.0	0.149	107	70-130	4.81	26	
Toluene	26.9	0.125	25.0	ND	108	70-130	5.00	20	
o-Xylene	26.7	0.125	25.0	0.219	106	70-130	4.93	25	
p,m-Xylene	54.5	0.250	50.0	0.372	108	70-130	4.56	23	
Total Xylenes	81.2	0.125	75.0	0.591	108	70-130	4.68	26	
Surrogate: 4-Bromochlorobenzene-PID	42.8		40.0		107	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531080-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			

LCS (2531080-BS2)

Prepared: 07/30/25 Analyzed: 07/30/25

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.16		8.00		102	70-130			

Matrix Spike (2531080-MS2)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/31/25

Gasoline Range Organics (C6-C10)	312	100	250	ND	125	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	41.0		40.0		103	70-130			

Matrix Spike Dup (2531080-MSD2)

Source: E507323-14

Prepared: 07/30/25 Analyzed: 07/30/25

Gasoline Range Organics (C6-C10)	307	100	250	ND	123	70-130	1.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	39.1		40.0		97.7	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/31/2025 1:06:14PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531078-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	61-141			

LCS (2531078-BS1)

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	295	25.0	250		118	66-144			
Surrogate: n-Nonane	51.9		50.0		104	61-141			

Matrix Spike (2531078-MS1)

Source: E507315-01

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	316	25.0	250	ND	127	56-156			
Surrogate: n-Nonane	54.9		50.0		110	61-141			

Matrix Spike Dup (2531078-MSD1)

Source: E507315-01

Prepared: 07/30/25 Analyzed: 07/30/25

Diesel Range Organics (C10-C28)	310	25.0	250	ND	124	56-156	2.14	20	
Surrogate: n-Nonane	54.3		50.0		109	61-141			



QC Summary Data

Mack Energy	Project Name:	West Mount K	Reported: 7/31/2025 1:06:14PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2531093-BLK1)

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	ND	20.0							
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LCS (2531093-BS1)

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	249	20.0	250		99.7	90-110			
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Matrix Spike (2531093-MS1)

Source: E507318-05

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	6360	100	250	5990	148	80-120			M4
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Matrix Spike Dup (2531093-MSD1)

Source: E507318-05

Prepared: 07/30/25 Analyzed: 07/30/25

Chloride	6370	100	250	5990	151	80-120	0.122	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount K Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/31/25 13:06
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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

Chain of Custody

Client: <u>Mack ENERGY "K"</u> Project: <u>WEST MOUNT - K</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:	Bill To Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240 Phone: 575-393-9048 Email: NATALIE@ENERGYSTAFFINGLLC.COM	Lab Use Only Lab WO# <u>E507334</u> Job Number <u>20046-0001</u> Analysis and Method	TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> Standard	EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>
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Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State NM CO UT AZ TX	Remarks
	7/27/25	S	1	BACKFILL COMP 1-542P	1							X			3.2

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7/27/25</u>	Time <u>1145</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-29-25</u>	Time <u>1145</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C _____
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-29-25</u>	Time <u>1400</u>	Received by: (Signature) <u>Marissa Gonzales</u>	Date <u>7-29-25</u>	Time <u>1400</u>	
Relinquished by: (Signature) <u>Marissa Gonzales</u>	Date <u>7-29-25</u>	Time <u>1725</u>	Received by: (Signature) <u>Andrew J.</u>	Date <u>7-29-25</u>	Time <u>1730</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Relinquished by: (Signature) <u>Andrew J.</u>	Date <u>7-29-25</u>	Time <u>1730</u>	Received by: (Signature) <u>Carth Man</u>	Date <u>7-30-25</u>	Time <u>800</u>
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Envirotech Analytical Laboratory

Printed: 7/30/2025 9:31:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/30/25 08:00	Work Order ID: E507334
Phone: (575) 390-6397	Date Logged In: 07/29/25 13:59	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 07/31/25 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
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Comments/Resolution

Project manager and time sampled not provided on COC.

Client Instruction

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

Date



envirotech Inc.

MACK ENERGY

WEST MOUNT SPILL K
BACKFILL COMPOSITE MAP

Legend

- BF COMP
- █ Mack Energy, WestMount #1\frac line spill K 10,548 SQ. FT.
- 📌 WEST MOUNT SPILL K



WEST MOUNT SPILL K

BF COMP



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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 563825

QUESTIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329852272
Incident Name	NAPP2329852272 WEST MOUNT SPILL K @ 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	
<i>Please answer all the questions in this group.</i>	
Site Name	WEST MOUNT SPILL K
Date Release Discovered	09/22/2023
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Production Produced Water Released: 137 BBL Recovered: 0 BBL Lost: 137 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 563825

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 03/17/2026
--	---

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QUESTIONS, Page 3

Action 563825

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	78900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	13690
GRO+DRO (EPA SW-846 Method 8015M)	13690
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	09/17/2024
On what date will (or did) the final sampling or liner inspection occur	10/25/2024
On what date will (or was) the remediation complete(d)	01/03/2025
What is the estimated surface area (in square feet) that will be reclaimed	10548
What is the estimated volume (in cubic yards) that will be reclaimed	492
What is the estimated surface area (in square feet) that will be remediated	10548
What is the estimated volume (in cubic yards) that will be remediated	3600

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 563825

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	FEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 03/17/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 563825

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 563825

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	392865
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2024
What was the (estimated) number of samples that were to be gathered	63
What was the sampling surface area in square feet	10548

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	10548
What was the total volume (cubic yards) remediated	3600
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	10548
What was the total volume (in cubic yards) reclaimed	492
Summarize any additional remediation activities not included by answers (above)	AREA WAS RIPPED, CROSS RIPPED, HAND BROADCASTED THE SEED AND SITE WAS RIPPED AGAIN.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 03/17/2026
--	---

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QUESTIONS, Page 7

Action 563825

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	10548
What was the total volume of replacement material (in cubic yards) for this site	4092
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	01/15/2025
Summarize any additional reclamation activities not included by answers (above)	ALL RECLAMATION WAS COMPLETED
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 03/17/2026

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

General Information
Phone: (505) 629-6116

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

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

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Action 563825

QUESTIONS (continued)

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	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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Santa Fe, NM 87505

CONDITIONS

Action 563825

CONDITIONS

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	Action Number: 563825
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation/remediation closure report for Incident #nAPP2329852272 WEST MOUNT SPILL K, thank you. The reclamation/remediation closure report is approved.	3/18/2026