ENSOLUM

July 29, 2025

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

Re: Site Summary Report and Closure Request
Rhoda Abrams 1M
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2512930293

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Summary Report and Closure Request* for the release of produced water at the Rhoda Abrams 1M, a natural gas production well (Site). The Site is located on surface managed by the Bureau of Land Management (BLM) in Unit L, Section 5, Township 30 North, Range 11 West, San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

On May 7, 2025, Hilcorp operations identified a release of 18.75 barrels (bbls) of produced water at the Site. The operator drained 62.40 bbls of produced water from the 286 bbls aboveground storage oil tank into the 120 bbls below grade tank (BGT) at 10:00 AM on May 7, 2025. At this time, the BGT contained 40 inches of fluid. After a final inspection, the operator called a water haul truck to schedule a routine water haul and left the Site at 10:45 AM. A second Hilcorp operator visited the Site at 2:27 PM to inspect potential graffiti and heard water leaking. Upon inspection, they observed a small leak on the south side of the on-Site BGT. The leaking water was contained in the BGT secondary containment cellar. Upon discovery, the operator immediately called the water truck to empty the remaining BGT contents. The operator measured the fluid level in the BGT which indicated a 7.5-inch drop in fluid level, equaling approximately 18.75 bbls released from the BGT. The primary cause of the release was due to corrosion of the tank. Hilcorp submitted a *Notification of Release* to the New Mexico Oil Conservation Division (NMOCD) on May 9, 2025 and the Site was assigned release Incident Number nAPP2512930293.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC).

The Site is located within the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarse-grained sandstones, which ranges in thickness from 418 feet to 2,232 feet. The hydrogeologic properties of the Nacimiento Formation display variable hydrogeologic properties dependent on location. Where sufficient yield is

present, the primary use of water from this formation is for domestic and/or livestock supply. The Nacimiento Formation is underlain by the Ojo Alamo sandstone (Stone et. al., 1983).

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

The closest significant watercourse is an intermittent stream located 295 feet north of the Site and is identified as a dashed blue line on a USGS 7.5-minute quadrangle map. The closest wetland is also 295 feet away. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 1). The nearest constructed fresh water well is a domestic well (SJ-03245), located 1,613 feet southwest of the Site (Appendix A) with a recorded depth to water of 65 feet below ground surface (bgs). NMOSE permit SJ-02632 is mapped closer to the Site but was not constructed and the permit is expired. No wellhead protection areas, springs, or domestic/stock wells are located within a 500-foot radius from the Site. The Site is not within the 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management [BLM]). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

2025 SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts resulting from the release, Ensolum advanced three hand auger borings (HA01 through HA03) on June 25, 2025. The NMOCD was notified prior to commencing on-Site activities, with sampling notifications provided in Appendix B. All three hand auger borings were advanced from within the BGT cribbing, thus were initiated at the bottom of the BGT at a depth of 4 feet bgs (Figure 2). A sample was collected from the first 6 inches of soil at the start of each boring at a depth of 4 feet bgs relative to the ground surface outside of the BGT cellar. A second sample was collected from each boring at a depth of 2 feet, or approximately 6 feet bgs relative to the ground surface outside the cellar. Soil samples were field screened at 1-foot intervals for the presence of organic vapors using a calibrated photoionization detector (PID) and chloride using Hach® QuanTab® test strips for the presence of chloride. PID and chloride field screening results are included in Table 1. No borings were advanced deeper than 6 feet bgs due to the lack of observable impacts and favorable field screening confirming a lack of elevated organic vapors and chloride readings.

Soil samples were collected directly into laboratory-provided jars, immediately placed on ice, and submitted to Eurofins Environment Testing for analysis of BTEX following United States Environmental

Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographs taken during field activities are attached as Appendix C.

Concentrations of all COCs in the soil samples collected during the June 2025 assessment were compliant with the applicable NMOCD Table I Closure Criteria. Soil sample analytical results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix D.

CONCLUSIONS AND CLOSURE REQUEST

Based on the delineation activities and soil analytical results described above, petroleum hydrocarbon and/or chloride contaminants were not detected in any of the samples collected at the Site above the NMOCD Table I Closure Criteria. As such, Site conditions appear to be protective of human health, the environment, and groundwater and Hilcorp respectfully requests closure for Incident Number nAPP2512930293.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

We appreciate the opportunity to provide this document to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,
Ensolum, LLC

Zach Myers
Staff Geologist
(614)323-4728
zmyers@ensolum.com

Stuart Hyde
Senior Managing Geologist
(970) 903-1607
shyde@ensolum.com

Attachments:

Figure 1: Site Location Map
Figure 2: Soil Sample Location Map

Table 1: Soil Sample Analytical Results

Appendix A: Depth to Water Determination
Appendix B: Agency Correspondence
Appendix C: Photographic Log
Appendix D: Laboratory Analytical Reports

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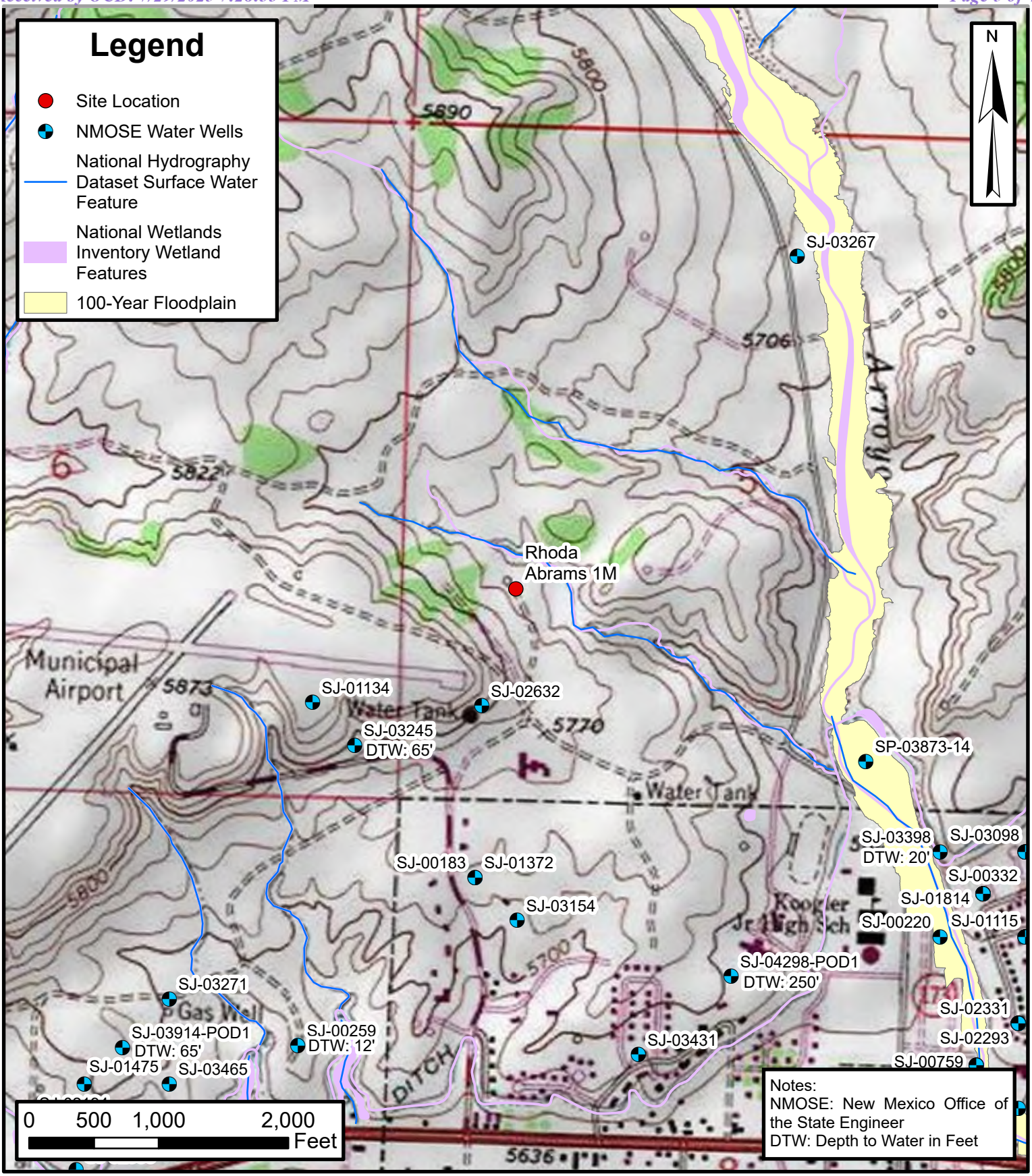
FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

Rhoda Abrams 1M
Hilcorp Energy Company

36.83831, -108.01992
San Juan County, New Mexico

FIGURE
1

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Soil Sample Location Map

Rhoda Abrams 1M
Hilcorp Energy Company
36.83831, -108.01992
San Juan County, New Mexico

FIGURE
2

Sources: Google Earth (2023)

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Rhoda Abrams 1M
Hilcorp Energy Company
San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Chloride Field Test (ppm)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
HA01@4'	6/25/2025	4	<116	6.9	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<60
HA01@6'	6/25/2025	6	<116	4.00	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.8	<44	<44	<60
HA02@4'	6/25/2025	4	<116	4.5	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	110
HA02@6'	6/25/2025	6	<116	6.3	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<46	<46	<60
HA03@4'	6/25/2025	4	<116	5.9	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.4	<47	<47	<60
HA03@6'	6/25/2025	6	<116	5.7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	<60

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
DRO: Diesel Range Organics
GRO: Gasoline Range Organics
mg/kg: Milligrams per kilogram
MRO: Motor Oil/Lube Oil Range Organics
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
ppm: Parts per million
TPH: Total Petroleum Hydrocarbon
': Feet
< : Indicates result less than the stated laboratory reporting limit (RL)

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APPENDIX A

Depth to Water Determination

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Steve D. Lanier Owner's Well No. SJ-3245
Street or Post Office Address 708 Airport Dr
City and State Aztec, N.M. 87410

Well was drilled under Permit No. SJ-3245 and is located in the:

a. SE ¼ SE ¼ SE ¼ ¼ of Section 6 Township 30N Range 11 W N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in San Juan County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor William C Hargis License No. 1508

Address 819 Maddox Aztec, N.M. 87410

Drilling Began 8-22-02 Completed 8-26-02 Type tools Rotary Size of hole 7 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 80 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 65 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
65	80	15	sand shale boulders	3

'02 SEP 6 PM 3 57
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
7	13	0	0	45 steel		drive	N/A	N/A
7		0	0	44 pvc			45	80

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

'02 AUG 30 PM 1 00
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 8-30-02

Quad _____ FWL _____ FSL _____

File No. SJ-3245 Use Dom Location No. 30N.11W.6.444

Section 6. LOG OF HOLE:

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	15	15	oberburden
15	40	25	boulders
40	45	5	sandstone
45	65	20	sand overburden
65	80	15	shale gravel

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

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APPENDIX B

Agency Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 477193
Date: Thursday, June 19, 2025 4:03:19 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2512930293.

The sampling event is expected to take place:

When: 06/25/2025 @ 13:00
Where: L-05-30N-11W 1600 FSL 885 FWL (36.838487,-108.01928)

Additional Information: Contact Stuart Hyde, 970-903-1607

Additional Instructions: Rhoda Abrams 1M well pad, coordinates 36.838487, -108.01928

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 confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

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APPENDIX C

Photographic Log

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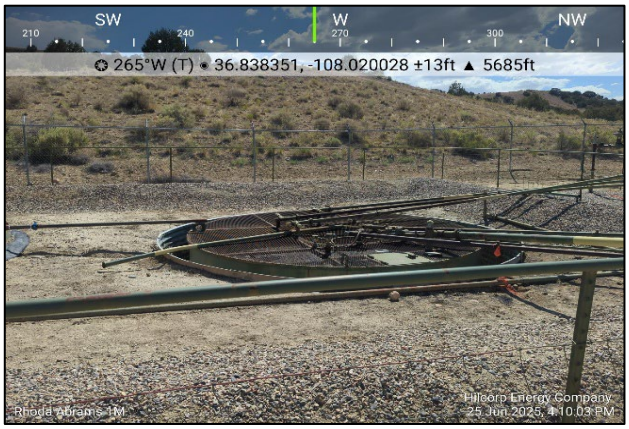
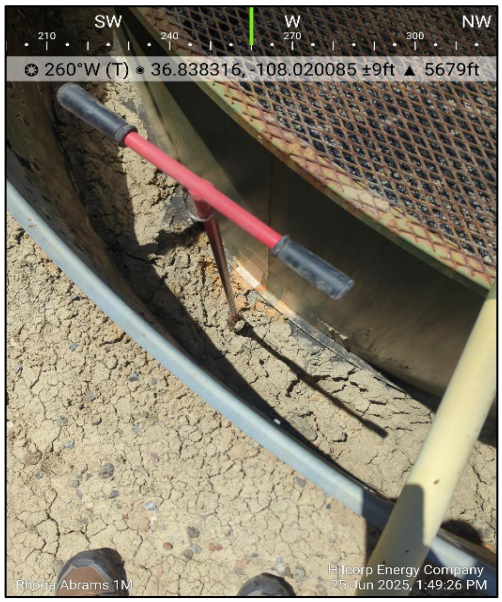
Photographic Log
Hilcorp Energy Company
Rhoda Abrams 1M
San Juan County, New Mexico



Photograph: 1 Date: 6/25/2025
Description: View of BGT in cellar
View: West



Photograph: 2 Date: 6/25/2025
Description: Location of HA01
View: West

Photograph: 3 Date: 9/19/2022
Description: Total depth of 6' BGS in HA01
View: Southeast

Photograph: 4 Date: 9/29/2022
Description: Location of HA02
View: East

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APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 7/2/2025 10:08:50 AM

JOB DESCRIPTION

Rhoda Abrams 1M

JOB NUMBER

885-27553-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
7/2/2025 10:08:50 AM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Laboratory Job ID: 885-27553-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Job ID: 885-27553-1
Project/Site: Rhoda Abrams 1M

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: Rhoda Abrams 1M

Job ID: 885-27553-1

Job ID: 885-27553-1 Eurofins Albuquerque

Job Narrative
885-27553-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/26/2025 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA01@4'

Date Collected: 06/25/25 13:53
Date Received: 06/26/25 07:00

Lab Sample ID: 885-27553-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/26/25 15:19	06/27/25 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 150*	*06/26/25 15:19*	*06/27/25 23:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/26/25 15:19	06/27/25 23:24	1
Ethylbenzene	ND		0.050		mg/Kg		06/26/25 15:19	06/27/25 23:24	1
Toluene	ND		0.050		mg/Kg		06/26/25 15:19	06/27/25 23:24	1
Xylenes, Total	ND		0.10		mg/Kg		06/26/25 15:19	06/27/25 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*06/26/25 15:19*	*06/27/25 23:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		06/30/25 12:23	06/30/25 20:18	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		06/30/25 12:23	06/30/25 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*06/30/25 12:23*	*06/30/25 20:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/27/25 22:36	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA01@6'

Date Collected: 06/25/25 14:02
Date Received: 06/26/25 07:00

Lab Sample ID: 885-27553-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/26/25 15:19	06/28/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*	*06/26/25 15:19*	*06/28/25 00:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/26/25 15:19	06/28/25 00:30	1
Ethylbenzene	ND		0.050		mg/Kg		06/26/25 15:19	06/28/25 00:30	1
Toluene	ND		0.050		mg/Kg		06/26/25 15:19	06/28/25 00:30	1
Xylenes, Total	ND		0.10		mg/Kg		06/26/25 15:19	06/28/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*15 - 150*	*06/26/25 15:19*	*06/28/25 00:30*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		06/30/25 12:23	06/30/25 20:30	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		06/30/25 12:23	06/30/25 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*06/30/25 12:23*	*06/30/25 20:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/27/25 22:50	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA02@4'

Date Collected: 06/25/25 14:17
Date Received: 06/26/25 07:00

Lab Sample ID: 885-27553-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		06/26/25 15:19	06/28/25 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*	*06/26/25 15:19*	*06/28/25 01:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		06/26/25 15:19	06/28/25 01:35	1
Ethylbenzene	ND		0.047		mg/Kg		06/26/25 15:19	06/28/25 01:35	1
Toluene	ND		0.047		mg/Kg		06/26/25 15:19	06/28/25 01:35	1
Xylenes, Total	ND		0.095		mg/Kg		06/26/25 15:19	06/28/25 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*06/26/25 15:19*	*06/28/25 01:35*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		06/30/25 12:23	06/30/25 20:43	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		06/30/25 12:23	06/30/25 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*06/30/25 12:23*	*06/30/25 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		06/27/25 15:19	06/27/25 23:04	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA02@6'

Date Collected: 06/25/25 14:26
Date Received: 06/26/25 07:00

Lab Sample ID: 885-27553-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/26/25 15:19	06/28/25 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 150*	*06/26/25 15:19*	*06/28/25 01:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/26/25 15:19	06/28/25 01:57	1
Ethylbenzene	ND		0.050		mg/Kg		06/26/25 15:19	06/28/25 01:57	1
Toluene	ND		0.050		mg/Kg		06/26/25 15:19	06/28/25 01:57	1
Xylenes, Total	ND		0.099		mg/Kg		06/26/25 15:19	06/28/25 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 150*	*06/26/25 15:19*	*06/28/25 01:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		06/30/25 12:23	06/30/25 20:55	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		06/30/25 12:23	06/30/25 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*06/30/25 12:23*	*06/30/25 20:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/27/25 23:45	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA03@4'

Date Collected: 06/25/25 14:45
Date Received: 06/26/25 07:00

Lab Sample ID: 885-27553-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		06/26/25 15:19	06/28/25 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*06/26/25 15:19*	*06/28/25 02:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		06/26/25 15:19	06/28/25 02:19	1
Ethylbenzene	ND		0.046		mg/Kg		06/26/25 15:19	06/28/25 02:19	1
Toluene	ND		0.046		mg/Kg		06/26/25 15:19	06/28/25 02:19	1
Xylenes, Total	ND		0.093		mg/Kg		06/26/25 15:19	06/28/25 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*06/26/25 15:19*	*06/28/25 02:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		06/30/25 12:23	06/30/25 21:07	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		06/30/25 12:23	06/30/25 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*06/30/25 12:23*	*06/30/25 21:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/27/25 23:58	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA03@6'

Date Collected: 06/25/25 15:01
Date Received: 06/26/25 07:00

Lab Sample ID: 885-27553-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/26/25 15:19	06/28/25 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*06/26/25 15:19*	*06/28/25 02:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/26/25 15:19	06/28/25 02:41	1
Ethylbenzene	ND		0.050		mg/Kg		06/26/25 15:19	06/28/25 02:41	1
Toluene	ND		0.050		mg/Kg		06/26/25 15:19	06/28/25 02:41	1
Xylenes, Total	ND		0.099		mg/Kg		06/26/25 15:19	06/28/25 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 150*	*06/26/25 15:19*	*06/28/25 02:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		06/30/25 12:23	06/30/25 21:32	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		06/30/25 12:23	06/30/25 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*06/30/25 12:23*	*06/30/25 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		06/27/25 15:19	06/28/25 00:12	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-29095/1-A
Matrix: Solid
Analysis Batch: 29245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29095

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		06/26/25 15:19	06/27/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 150*	*06/26/25 15:19*	*06/27/25 23:03*	*1*

Lab Sample ID: LCS 885-29095/2-A
Matrix: Solid
Analysis Batch: 29245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	31.3		mg/Kg		125	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*		*15 - 150*

Lab Sample ID: 885-27553-1 MS
Matrix: Solid
Analysis Batch: 29245

Client Sample ID: HA01@4'
Prep Type: Total/NA
Prep Batch: 29095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.8	28.8		mg/Kg		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*217*		*15 - 150*

Lab Sample ID: 885-27553-1 MSD
Matrix: Solid
Analysis Batch: 29245

Client Sample ID: HA01@4'
Prep Type: Total/NA
Prep Batch: 29095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.9	29.6		mg/Kg		119	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*221*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-29095/1-A
Matrix: Solid
Analysis Batch: 29244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29095

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/26/25 15:19	06/27/25 23:03	1
Ethylbenzene	ND		0.050		mg/Kg		06/26/25 15:19	06/27/25 23:03	1
Toluene	ND		0.050		mg/Kg		06/26/25 15:19	06/27/25 23:03	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-29095/1-A
Matrix: Solid
Analysis Batch: 29244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29095

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		06/26/25 15:19	06/27/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*15 - 150*	*06/26/25 15:19*	*06/27/25 23:03*	*1*

Lab Sample ID: LCS 885-29095/3-A
Matrix: Solid
Analysis Batch: 29244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.865		mg/Kg		87	70 - 130		
Ethylbenzene			1.00	0.890		mg/Kg		89	70 - 130		
m&p-Xylene			2.00	1.79		mg/Kg		90	70 - 130		
o-Xylene			1.00	0.894		mg/Kg		89	70 - 130		
Toluene			1.00	0.861		mg/Kg		86	70 - 130		
Xylenes, Total			3.00	2.69		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*15 - 150*

Lab Sample ID: 885-27553-2 MS
Matrix: Solid
Analysis Batch: 29244

Client Sample ID: HA01@6'
Prep Type: Total/NA
Prep Batch: 29095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.997	0.915		mg/Kg		92	70 - 130		
Ethylbenzene	ND		0.997	0.986		mg/Kg		99	70 - 130		
m&p-Xylene	ND		1.99	1.98		mg/Kg		99	70 - 130		
o-Xylene	ND		0.997	0.992		mg/Kg		99	70 - 130		
Toluene	ND		0.997	0.937		mg/Kg		94	70 - 130		
Xylenes, Total	ND		2.99	2.97		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*15 - 150*

Lab Sample ID: 885-27553-2 MSD
Matrix: Solid
Analysis Batch: 29244

Client Sample ID: HA01@6'
Prep Type: Total/NA
Prep Batch: 29095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.992	0.919		mg/Kg		93	70 - 130	0	20
Ethylbenzene	ND		0.992	1.01		mg/Kg		102	70 - 130	3	20
m&p-Xylene	ND		1.98	2.04		mg/Kg		103	70 - 130	3	20
o-Xylene	ND		0.992	1.03		mg/Kg		104	70 - 130	4	20
Toluene	ND		0.992	0.949		mg/Kg		96	70 - 130	1	20
Xylenes, Total	ND		2.98	3.07		mg/Kg		103	70 - 130	3	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-27553-2 MSD
Matrix: Solid
Analysis Batch: 29244

Client Sample ID: HA01@6'
Prep Type: Total/NA
Prep Batch: 29095

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*94*		*15 - 150*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-29276/1-A
Matrix: Solid
Analysis Batch: 29248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29276

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		06/30/25 12:21	06/30/25 17:02	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/30/25 12:21	06/30/25 17:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*06/30/25 12:21*	*06/30/25 17:02*	*1*

Lab Sample ID: LCS 885-29276/2-A
Matrix: Solid
Analysis Batch: 29248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.4		mg/Kg		85	51 - 148		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*

Lab Sample ID: 885-27553-6 MS
Matrix: Solid
Analysis Batch: 29248

Client Sample ID: HA03@6'
Prep Type: Total/NA
Prep Batch: 29276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		45.2	44.1		mg/Kg		97	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*

Lab Sample ID: 885-27553-6 MSD
Matrix: Solid
Analysis Batch: 29248

Client Sample ID: HA03@6'
Prep Type: Total/NA
Prep Batch: 29276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		45.9	49.5		mg/Kg		108	44 - 136	12	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29198/1-A
Matrix: Solid
Analysis Batch: 29179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29198

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		06/27/25 15:19	06/27/25 19:53	1

Lab Sample ID: LCS 885-29198/2-A
Matrix: Solid
Analysis Batch: 29179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29198

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	15.0		mg/Kg		100	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Job ID: 885-27553-1
Project/Site: Rhoda Abrams 1M

GC VOA

Prep Batch: 29095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	5030C	
885-27553-2	HA01@6'	Total/NA	Solid	5030C	
885-27553-3	HA02@4'	Total/NA	Solid	5030C	
885-27553-4	HA02@6'	Total/NA	Solid	5030C	
885-27553-5	HA03@4'	Total/NA	Solid	5030C	
885-27553-6	HA03@6'	Total/NA	Solid	5030C	
MB 885-29095/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-29095/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-29095/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-27553-1 MS	HA01@4'	Total/NA	Solid	5030C	
885-27553-1 MSD	HA01@4'	Total/NA	Solid	5030C	
885-27553-2 MS	HA01@6'	Total/NA	Solid	5030C	
885-27553-2 MSD	HA01@6'	Total/NA	Solid	5030C	

Analysis Batch: 29244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	8021B	29095
885-27553-2	HA01@6'	Total/NA	Solid	8021B	29095
885-27553-3	HA02@4'	Total/NA	Solid	8021B	29095
885-27553-4	HA02@6'	Total/NA	Solid	8021B	29095
885-27553-5	HA03@4'	Total/NA	Solid	8021B	29095
885-27553-6	HA03@6'	Total/NA	Solid	8021B	29095
MB 885-29095/1-A	Method Blank	Total/NA	Solid	8021B	29095
LCS 885-29095/3-A	Lab Control Sample	Total/NA	Solid	8021B	29095
885-27553-2 MS	HA01@6'	Total/NA	Solid	8021B	29095
885-27553-2 MSD	HA01@6'	Total/NA	Solid	8021B	29095

Analysis Batch: 29245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	8015M/D	29095
885-27553-2	HA01@6'	Total/NA	Solid	8015M/D	29095
885-27553-3	HA02@4'	Total/NA	Solid	8015M/D	29095
885-27553-4	HA02@6'	Total/NA	Solid	8015M/D	29095
885-27553-5	HA03@4'	Total/NA	Solid	8015M/D	29095
885-27553-6	HA03@6'	Total/NA	Solid	8015M/D	29095
MB 885-29095/1-A	Method Blank	Total/NA	Solid	8015M/D	29095
LCS 885-29095/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29095
885-27553-1 MS	HA01@4'	Total/NA	Solid	8015M/D	29095
885-27553-1 MSD	HA01@4'	Total/NA	Solid	8015M/D	29095

GC Semi VOA

Analysis Batch: 29248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	8015M/D	29276
885-27553-2	HA01@6'	Total/NA	Solid	8015M/D	29276
885-27553-3	HA02@4'	Total/NA	Solid	8015M/D	29276
885-27553-4	HA02@6'	Total/NA	Solid	8015M/D	29276
885-27553-5	HA03@4'	Total/NA	Solid	8015M/D	29276
885-27553-6	HA03@6'	Total/NA	Solid	8015M/D	29276
MB 885-29276/1-A	Method Blank	Total/NA	Solid	8015M/D	29276

QC Association Summary

Client: Hilcorp Energy
Job ID: 885-27553-1
Project/Site: Rhoda Abrams 1M

GC Semi VOA (Continued)

Analysis Batch: 29248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-29276/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29276
885-27553-6 MS	HA03@6'	Total/NA	Solid	8015M/D	29276
885-27553-6 MSD	HA03@6'	Total/NA	Solid	8015M/D	29276

Prep Batch: 29276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	SHAKE	
885-27553-2	HA01@6'	Total/NA	Solid	SHAKE	
885-27553-3	HA02@4'	Total/NA	Solid	SHAKE	
885-27553-4	HA02@6'	Total/NA	Solid	SHAKE	
885-27553-5	HA03@4'	Total/NA	Solid	SHAKE	
885-27553-6	HA03@6'	Total/NA	Solid	SHAKE	
MB 885-29276/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29276/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-27553-6 MS	HA03@6'	Total/NA	Solid	SHAKE	
885-27553-6 MSD	HA03@6'	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 29179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	300.0	29198
885-27553-2	HA01@6'	Total/NA	Solid	300.0	29198
885-27553-3	HA02@4'	Total/NA	Solid	300.0	29198
885-27553-4	HA02@6'	Total/NA	Solid	300.0	29198
885-27553-5	HA03@4'	Total/NA	Solid	300.0	29198
885-27553-6	HA03@6'	Total/NA	Solid	300.0	29198
MB 885-29198/1-A	Method Blank	Total/NA	Solid	300.0	29198
LCS 885-29198/2-A	Lab Control Sample	Total/NA	Solid	300.0	29198

Prep Batch: 29198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27553-1	HA01@4'	Total/NA	Solid	300_Prep	
885-27553-2	HA01@6'	Total/NA	Solid	300_Prep	
885-27553-3	HA02@4'	Total/NA	Solid	300_Prep	
885-27553-4	HA02@6'	Total/NA	Solid	300_Prep	
885-27553-5	HA03@4'	Total/NA	Solid	300_Prep	
885-27553-6	HA03@6'	Total/NA	Solid	300_Prep	
MB 885-29198/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29198/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Client Sample ID: HA01@4'

Lab Sample ID: 885-27553-1

Date Collected: 06/25/25 13:53
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8015M/D		1	29245	AT	EET ALB	06/27/25 23:24
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8021B		1	29244	AT	EET ALB	06/27/25 23:24
Total/NA	Prep	SHAKE			29276	DH	EET ALB	06/30/25 12:23
Total/NA	Analysis	8015M/D		1	29248	EM	EET ALB	06/30/25 20:18
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/27/25 22:36

Client Sample ID: HA01@6'

Lab Sample ID: 885-27553-2

Date Collected: 06/25/25 14:02
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8015M/D		1	29245	AT	EET ALB	06/28/25 00:30
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8021B		1	29244	AT	EET ALB	06/28/25 00:30
Total/NA	Prep	SHAKE			29276	DH	EET ALB	06/30/25 12:23
Total/NA	Analysis	8015M/D		1	29248	EM	EET ALB	06/30/25 20:30
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/27/25 22:50

Client Sample ID: HA02@4'

Lab Sample ID: 885-27553-3

Date Collected: 06/25/25 14:17
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8015M/D		1	29245	AT	EET ALB	06/28/25 01:35
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8021B		1	29244	AT	EET ALB	06/28/25 01:35
Total/NA	Prep	SHAKE			29276	DH	EET ALB	06/30/25 12:23
Total/NA	Analysis	8015M/D		1	29248	EM	EET ALB	06/30/25 20:43
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/27/25 23:04

Client Sample ID: HA02@6'

Lab Sample ID: 885-27553-4

Date Collected: 06/25/25 14:26
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8015M/D		1	29245	AT	EET ALB	06/28/25 01:57

Lab Chronicle

Client: Hilcorp Energy
Job ID: 885-27553-1
Project/Site: Rhoda Abrams 1M

Client Sample ID: HA02@6'
Lab Sample ID: 885-27553-4
Date Collected: 06/25/25 14:26
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8021B		1	29244	AT	EET ALB	06/28/25 01:57
Total/NA	Prep	SHAKE			29276	DH	EET ALB	06/30/25 12:23
Total/NA	Analysis	8015M/D		1	29248	EM	EET ALB	06/30/25 20:55
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/27/25 23:45

Client Sample ID: HA03@4'
Lab Sample ID: 885-27553-5
Date Collected: 06/25/25 14:45
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8015M/D		1	29245	AT	EET ALB	06/28/25 02:19
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8021B		1	29244	AT	EET ALB	06/28/25 02:19
Total/NA	Prep	SHAKE			29276	DH	EET ALB	06/30/25 12:23
Total/NA	Analysis	8015M/D		1	29248	EM	EET ALB	06/30/25 21:07
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/27/25 23:58

Client Sample ID: HA03@6'
Lab Sample ID: 885-27553-6
Date Collected: 06/25/25 15:01
Matrix: Solid
Date Received: 06/26/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8015M/D		1	29245	AT	EET ALB	06/28/25 02:41
Total/NA	Prep	5030C			29095	AT	EET ALB	06/26/25 15:19
Total/NA	Analysis	8021B		1	29244	AT	EET ALB	06/28/25 02:41
Total/NA	Prep	SHAKE			29276	DH	EET ALB	06/30/25 12:23
Total/NA	Analysis	8015M/D		1	29248	EM	EET ALB	06/30/25 21:32
Total/NA	Prep	300_Prep			29198	MA	EET ALB	06/27/25 15:19
Total/NA	Analysis	300.0		20	29179	RC	EET ALB	06/28/25 00:12

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Rhoda Abrams 1M

Job ID: 885-27553-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp

attn: Mitch Killough

Mailing Address:

Phone #:

email or Fax#: mkillough@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Rhoda Abrams 1M

Project #:

Project Manager: Stuart Hyde

shyde@ensolum.com

Sampler: Zach Myers

On Ice: ☒ Yes ☐ No maj

# of Coolers: 1

Cooler Temp(including CF): 1.7+0.2=1.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-27553 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6-25	1353	soil	HA01@4'	4oz jar	cool		X	X					X			
	1402		HA01@6'													
	1417		HA02@4'													
	1426		HA02@6'													
	1445		HA03@4'													
↓	1501	↓	HA03@6'	↓	↓		↓	↓					↓			

Date	Time	Relinquished by	Received by	Via	Date	Time
6-25-25	1635				6/25/25	1635
6/25/25	1800			courier	6/26/25	7:00

Remarks: cc: zmyers@ensolum.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-27553-1

Login Number: 27553 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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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 489947

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512930293**
Incident Name	**NAPP2512930293 RHODA ABRAMS 1M @ 30-045-34150**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-045-34150] RHODA ABRAMS #001M**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Rhoda Abrams 1M
Date Release Discovered	05/07/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Tank (Any) | Produced Water | Released: 19 BBL | Recovered: 18 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	On 5/7/2025 at 3:00 pm (MT), a Hilcorp operator discovered a 18.75-bbl produced water release from a 120-bbl pit tank. Upon further inspection by the operator, it was determined that a 1/2-inch hole had formed on the 120-bbl pit tank approximately 3.5-inches above the bottom of the pit tank. This hole was discovered after operations had drained produced water fluid from the adjacent 286-bbl condensate storage tank into the pit tank earlier in the day. When the operator re-visited the site later the same day, the operator heard water leaking at the pit tank. Three Rivers Trucking was called to the site to remove fluid from within secondary containment and the pit tank as well. Approximately 18 bbls of fluid was recovered by Three Rivers Trucking. However, 0.75-bbl of spilled fluid soaked into the soils/gravel beneath the pit tank. No spilled fluids migrated horizontally outside containment.**Note: General chemistry for the produced water fluids at Rhoda Abrams/Story B LS 3 indicate that dissolved chlorides are not greater than 10,000 mg/L.**

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
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: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/29/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 200 and 300 (ft.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1 and 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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and 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)	110
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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	06/25/2025
On what date will (or did) the final sampling or liner inspection occur	06/25/2025
On what date will (or was) the remediation complete(d)	06/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.)	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No remediation needed
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: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/29/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**477193**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/25/2025**
What was the (estimated) number of samples that were to be gathered	**8**
What was the sampling surface area in square feet	**100**

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	0
What was the total volume (cubic yards) remediated	0
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/29/2025

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QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 489947
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	10/10/2025