



# ENSOLUM

March 9, 2026

## **New Mexico Oil Conservation Division**

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

### **Re: 2025 Annual Groundwater Monitoring Report**

Aztec #9

Aztec, New Mexico

Hilcorp Energy Company

NMOCD Incident No: nAPP2307357709

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2025 Annual Groundwater Monitoring Report* (Report) summarizing quarterly groundwater sampling activities performed at the Aztec #9 natural gas production well (Site). The Site is located on private land in Unit M, Section 9, Township 30 North, Range 11 West, in Aztec, New Mexico (Figure 1).

## **SITE BACKGROUND**

On February 27, 2023, Hilcorp discovered a release of 8.35 barrels (bbls) of condensate and 3.34 bbls of produced water at the Site. Upon inspection, a hole was discovered near the bottom of the condensate aboveground storage tanks (AST) due to corrosion. The released fluids pooled immediately around the AST and stayed within the secondary containment. No released fluids were recovered; however, the remaining fluids within the AST were immediately removed via vacuum truck and transferred to another well location for storage. Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on March 14, 2023. The NMOCD has assigned the Site Incident Number nAPP2307357709.

Due to the likelihood of shallow groundwater at the Site, Hilcorp conducted initial excavation activities of impacted soil located on the well pad on March 6 and 7, 2023. Delineation activities were also conducted in March of 2023 to delineate the vertical and lateral extent of soil and groundwater impacts at the Site. Initial excavation and delineation sampling activities were summarized in the *Remediation Work Plan* prepared by Ensolum, dated June 8, 2023. The *Remediation Update Report* (dated February 28, 2024) was submitted to the NMOCD following excavation and groundwater monitoring well installation activities performed in December 2023 and January 2024. Four permanent groundwater monitoring wells (MW01 through MW04) were installed in the locations indicated on Figure 2.

## **2025 GROUNDWATER SAMPLING ACTIVITIES**

In 2025, Ensolum conducted quarterly groundwater elevation monitoring and sampling at the Site. These activities were conducted in January, April, August, and October of 2025. Prior to purging and sampling, static depth to groundwater and total depth of each monitoring well was measured using a Keck® oil/water interface probe. The interface probe was decontaminated with Alconox®

soap and rinsed with distilled water prior to each measurement. Measurable PSH was encountered during the January, August, and October 2025 sampling events in well MW02 with thicknesses ranging from 0.03 feet to 0.48 feet. Trace PSH was also present during the April 2025 sampling event. When present, PSH was removed from the well to the maximum extent practicable. PSH was not encountered in any other wells in 2025. When PSH was present, a correction factor of 0.8 was applied to calculate the groundwater elevation, which accounts for the depression of the water column caused by the presence of overlying PSH. Depth to groundwater and groundwater elevations are summarized in Table 1. Potentiometric surface maps were developed with groundwater elevations for each quarterly event and are presented on Figures 2 through 5. Groundwater flow direction is generally to the west-northwest at the Site.

Groundwater samples were collected for laboratory analysis from all Site wells that did not contain measurable phase-separated hydrocarbons (PSH). Additionally, although PSH was present in well MW02 during the October 2025 sampling events, a sample was collected for laboratory analysis in order to assess benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations. Prior to collecting groundwater samples, groundwater was purged from each well to remove stagnant water. Water quality parameters including pH, temperature, electrical conductivity (EC), dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured in each well during purging using a multiparameter probe water quality field meter, with parameters summarized in Table 2. Once purging was complete, groundwater samples were collected directly into laboratory provided sample bottles and immediately placed on ice for preservation. Samples were submitted under strict chain-of-custody protocol to Eurofins Environment Testing (Eurofins) for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8260B.

Based on the analytical results collected in 2025, benzene, toluene, ethylbenzene, and/or total xylenes were detected exceeding the New Mexico Water Quality Control Commission (NMWQCC) standards in well MW02. PSH was also detected in well MW02 (located within the former excavation footprint) during the January, August, and October 2025 sampling events. BTEX constituents and/or PSH were not detected in wells MW01, MW03, and MW04 above the applicable NMWQCC standards during the 2025 sampling events. Groundwater analytical results are summarized in Table 3 and on Figure 6, with complete laboratory reports included in Appendix A.

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

Sincerely,  
**Ensolum, LLC**



Grace Swanson  
Associate Scientist  
(970) 759-0103  
gswanson@ensolum.com



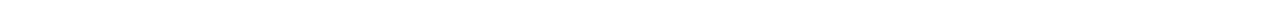
Stuart Hyde  
Senior Managing Geologist  
(970) 903-1607  
shyde@ensolum.com

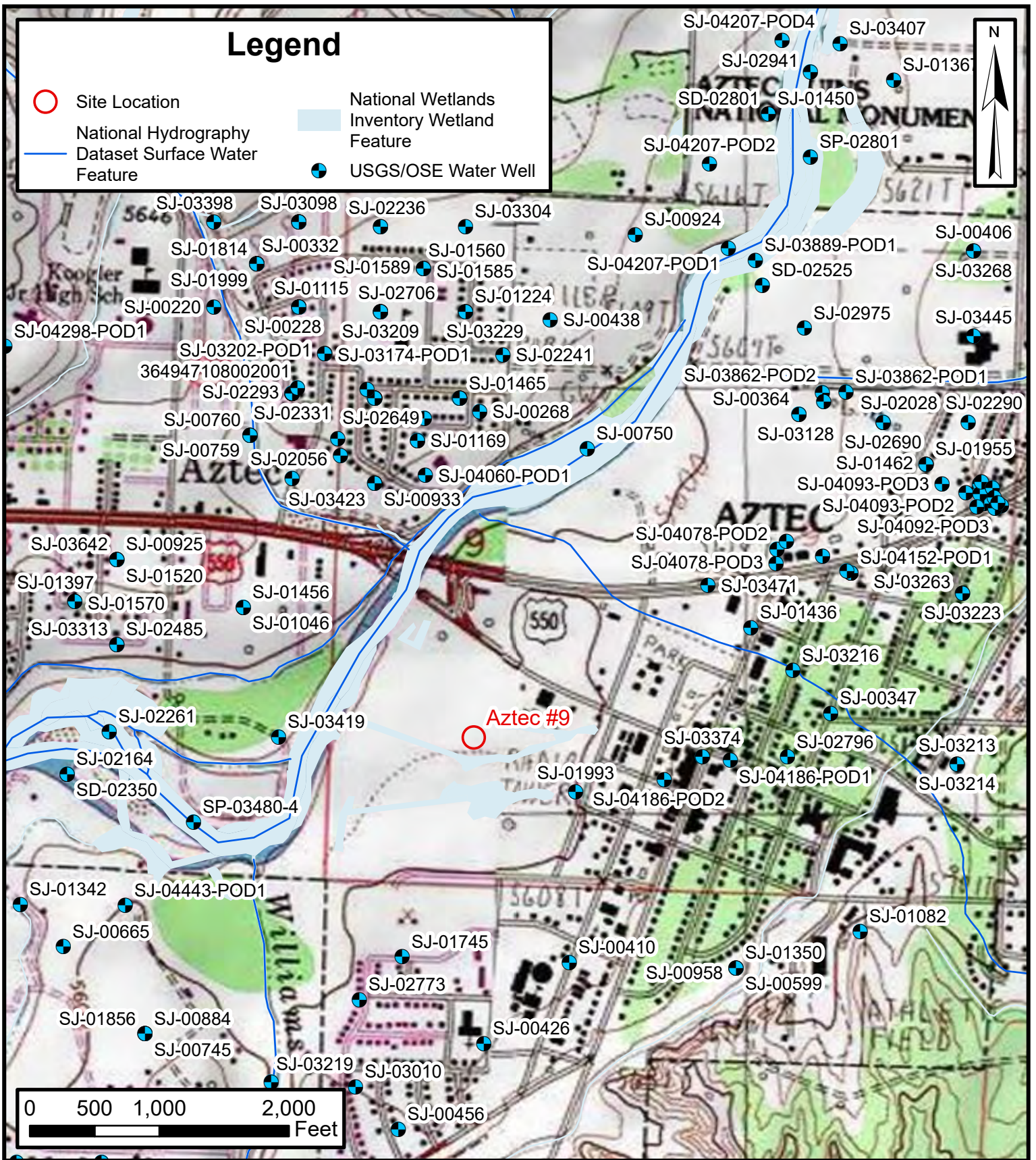
**Attachments:**

- Figure 1: Site Location Map
- Figure 2: Groundwater Elevation Contours – Q1 2025
- Figure 3: Groundwater Elevation Contours – Q2 2025
- Figure 4: Groundwater Elevation Contours – Q3 2025
- Figure 5: Groundwater Elevation Contours – Q4 2025
- Figure 6: Groundwater Analytical Results
  
- Table 1: Groundwater Elevations
- Table 2: Groundwater Quality Measurements
- Table 3: Groundwater Analytical Results
  
- Appendix A: Laboratory Analytical Reports



## FIGURES





**Site Location Map**  
 Aztec #9  
 Hilcorp Energy Company  
 36.82245, -108.00108  
 San Juan County, New Mexico

**FIGURE**  
**1**

# Legend

- Monitoring Well
- Approximate Free Product Plume
- Groundwater Elevation Contour
- Estimated Groundwater Flow Direction

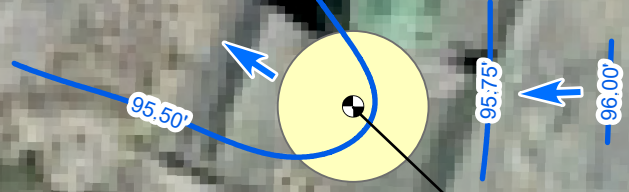


MW-01  
01/28/2025  
Elev: 95.43'

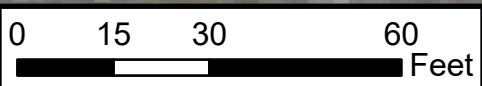
MW-04  
01/28/2025  
Elev: 96.22'

MW-03  
01/28/2025  
Elev: 95.63'

MW-02  
01/28/2025  
Elev: 95.39'  
PT: 0.03'



Notes:  
 Elev: Groundwater elevation based on an arbitrary datum of 100 feet at the top of casing of MW-04  
 ' : Feet  
 PT: Free product thickness






**Groundwater Elevation Contours - Q1 2025**

Aztec #9  
 Hilcorp Energy Company  
 36.82245, -108.00108  
 San Juan County, New Mexico

**FIGURE**  
**2**

# Legend

-  Monitoring Well
-  Groundwater Elevation Contour
-  Estimated Groundwater Flow Direction



MW-01  
04/08/2025  
Elev: 95.60'



MW-04  
04/08/2025  
Elev: 96.21



95.75'

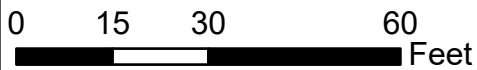
96.00'



MW-02  
04/08/2025  
Elev: 95.86'



MW-03  
04/08/2025  
Elev: 95.63'



Notes:  
Elev: Groundwater elevation based on an arbitrary datum of 100 feet at the top of casing of MW-04  
' : Feet







## Groundwater Elevation Contours - Q2 2025

Aztec #9  
Hilcorp Energy Company  
36.82245, -108.00108  
San Juan County, New Mexico

FIGURE  
**3**

# Legend

-  Monitoring Well
-  Approximate Free Product Plume
-  Groundwater Elevation Contour
-  Estimated Groundwater Flow Direction

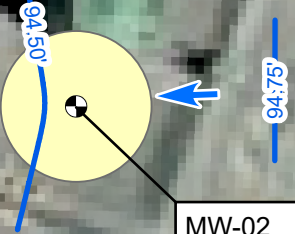


MW-01  
08/05/2025  
Elev: 94.34'

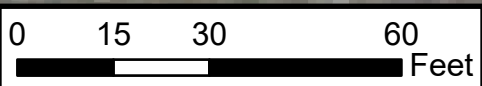
MW-04  
08/05/2025  
Elev: 94.90'

MW-03  
08/05/2025  
Elev: 94.41'

MW-02  
08/05/2025  
Elev: 94.52'  
PT: 0.48'



Notes:  
Elev: Groundwater elevation based on an arbitrary datum of 100 feet at the top of casing of MW-04  
' : Feet  
PT: Free product thickness







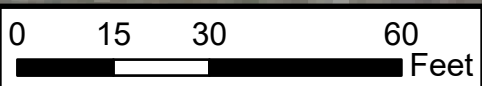
**Groundwater Elevation Contours - Q3 2025**

Aztec #9  
Hilcorp Energy Company  
36.82245, -108.00108  
San Juan County, New Mexico

**FIGURE**  
**4**

# Legend

-  Monitoring Well
-  Approximate Free Product Plume
-  Groundwater Elevation Contour
-  Estimated Groundwater Flow Direction



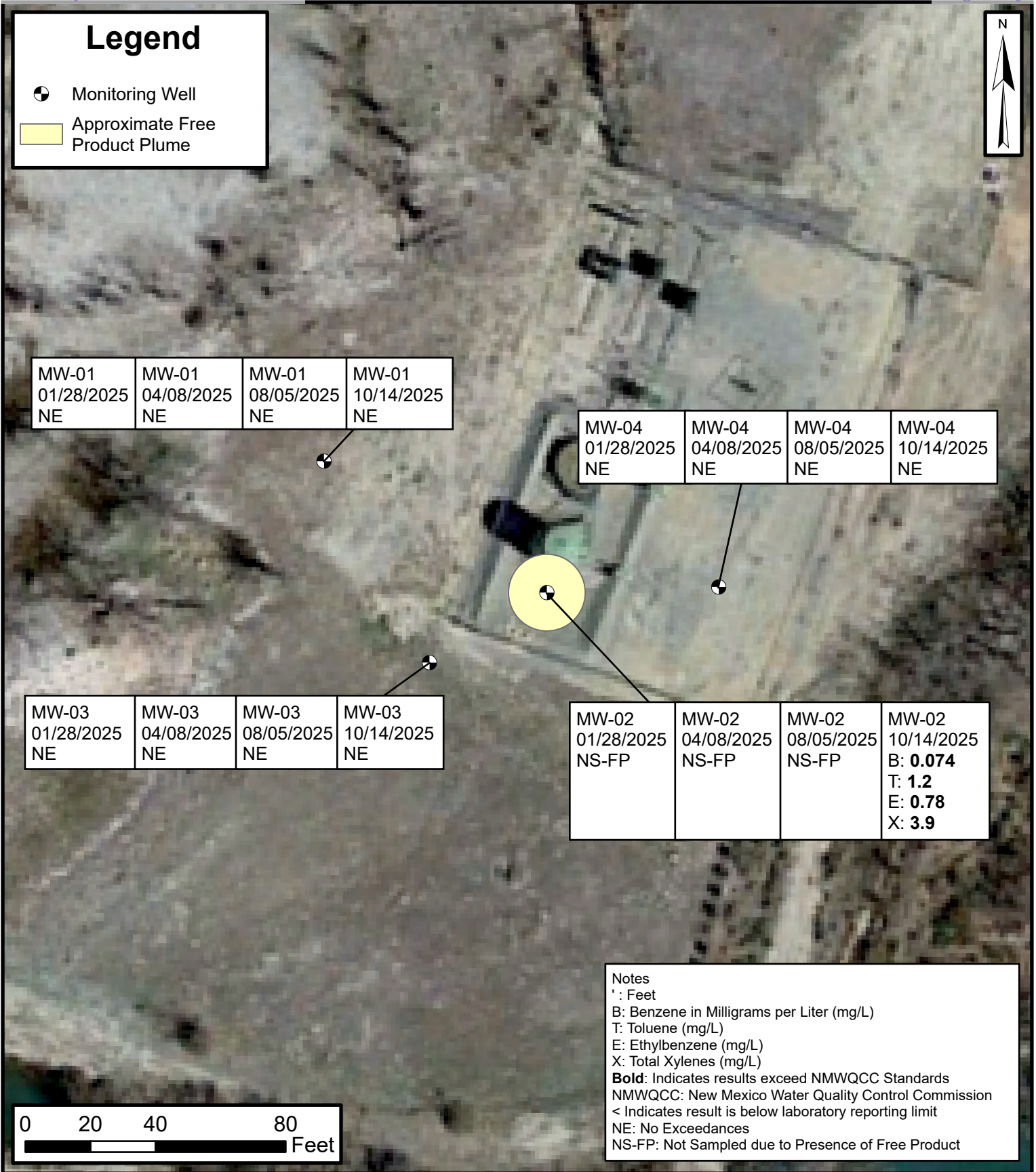
Notes:  
Elev: Groundwater elevation based on an arbitrary datum of 100 feet at the top of casing of MW-04  
' : Feet  
PT: Free product thickness



## Groundwater Elevation Contours - Q4 2025

Aztec #9  
Hilcorp Energy Company  
36.82245, -108.00108  
San Juan County, New Mexico

FIGURE  
**5**



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## Groundwater Analytical Results

Aztec #9  
Hilcorp Energy Company  
36.82245, -108.00108  
San Juan County, New Mexico

**FIGURE**  
**6**



TABLES



<b>TABLE 1</b> <b>GROUNDWATER ELEVATIONS</b> Aztec #9 Hilcorp Energy Company Aztec, New Mexico							
Well ID	Top of Casing Elevation (feet)*	Total Depth (feet)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet)
MW-01	97.69	9.95	2/1/2024	2.05	--	--	95.64
		9.80	5/28/2024	2.25	--	--	95.44
		--	8/23/2024	3.71	--	--	93.98
		9.80	11/20/2024	2.21	--	--	95.48
		9.80	1/28/2025	2.26	--	--	95.43
		9.80	4/8/2025	2.09	--	--	95.60
		10.24	8/5/2025	3.35	--	--	94.34
		10.30	10/14/2025	4.52	--	--	93.17
MW-02	99.90	12.89	2/1/2024	4.08	4.07	0.01	95.83
		12.70	5/28/2024	5.15	5.12	0.03	94.77
		--	8/23/2024	5.95	5.55	0.40	94.27
		--	11/20/2024	4.51	4.00	0.51	95.80
		--	1/28/2025	4.53	4.50	0.03	95.39
		11.81	4/8/2025	4.04	Trace	Trace	95.86
		11.55	8/5/2025	5.76	5.28	0.48	94.52
		12.54	10/14/2025	4.02	3.89	0.13	95.98
MW-03	99.05	12.48	2/1/2024	3.41	--	--	95.64
		10.24	5/28/2024	4.45	--	--	94.60
		--	8/23/2024	4.89	--	--	94.16
		10.24	11/20/2024	3.39	--	--	95.66
		10.24	1/28/2025	3.42	--	--	95.63
		10.24	4/8/2025	3.42	--	--	95.63
		10.03	8/5/2025	4.64	--	--	94.41
		10.03	10/14/2025	3.26	--	--	95.79
MW-04	100.00	9.36	2/1/2024	3.78	--	--	96.22
		8.90	5/28/2024	4.60	--	--	95.40
		--	8/23/2024	5.35	--	--	94.65
		8.90	11/20/2024	3.70	--	--	96.30
		8.90	1/28/2025	3.78	--	--	96.22
		8.90	4/8/2025	3.79	--	--	96.21
		8.31	8/5/2025	5.10	--	--	94.90
		8.24	10/14/2025	3.72	--	--	96.28

**Notes:**

BTOC: Below top of casing

\*: Elevations based on an arbitrary datum of 100 feet at the top of casing of MW04

--: Indicates no GWEL or PSH measured

A product density factor of 0.8 was used to account for the presence of free product



**TABLE 2**  
**GROUNDWATER QUALITY MEASUREMENTS**  
 Aztec #9  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Well ID	Sample Date	Temperature (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)
MW-01	2/1/2024	8.40	7.69	4.25	--	--
	5/28/2024	14.22	7.00	4.54	--	--
	8/23/2024	19.80	7.27	3.10	1.75	-81.00
	11/20/2024	13.04	6.94	2.59	2.31	-36.00
	1/28/2025	7.50	7.50	2.27	3.51	-26.30
	4/8/2025	9.7	7.07	2.537	3.13	-42.1
	8/5/2025	17.8	7.16	2.280	1.81	-69.9
	10/14/2025	17.1	7.06	2.023	0.26	-78.2
MW-02	2/1/2024	9.00	7.96	4.03	--	--
	5/28/2024	13.33	6.92	4.68	--	--
	8/23/2024	--	--	--	--	--
	11/20/2024	--	--	--	--	--
	1/28/2025	--	--	--	--	--
	4/8/2025	--	--	--	--	--
	8/5/2025	--	--	--	--	--
	10/14/2025	PSH Present, No Parameters Collected				
MW-03	2/1/2024	8.40	7.61	4.44	--	--
	5/28/2024	14.11	6.76	4.63	--	--
	8/23/2024	18.70	7.18	3.01	1.02	-47.6
	11/20/2024	13.10	7.01	1.77	2.13	4.8
	1/28/2025	9.10	7.41	2.51	3.07	17.8
	4/8/2025	10.5	7.06	2.393	2.65	-7.8
	8/5/2025	17.6	7.13	2.303	2.27	-23.4
	10/14/2025	17.7	7.07	2.140	0.39	-67.5
MW-04	2/1/2024	6.10	7.58	4.90	--	--
	5/28/2024	13.11	6.73	5.95	--	--
	8/23/2024	19.20	7.18	2.25	1.74	-18.50
	11/20/2024	12.08	7.15	2.85	3.46	34.6
	1/28/2025	5.20	7.39	3.30	4.24	42.9
	4/8/2025	7.5	7.04	2.881	3.52	52.2
	8/5/2025	19.4	7.03	2.386	0.24	-32.5
	10/14/2025	17.6	7.05	2.174	0.29	-26.4

**Notes:**  
 mS/cm: Millisiemens per centimeter  
 mg/L: Milligrams per liter  
 °C: Degrees Celsius  
 DO: Dissolved oxygen  
 mV: Millivolts  
 ORP: Oxidation-reduction potential  
 PSH: Phase separated hydrocarbons  
 TDS: Total dissolved solids  
 --: Not measured



<b>TABLE 3</b> <b>GROUNDWATER ANALYTICAL RESULTS</b> Aztec #9 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
<b>NMWQCC Standards</b>		<b>0.005</b>	<b>1.0</b>	<b>0.70</b>	<b>0.62</b>
<b>MW-01</b>	2/1/2024	<b>0.044</b>	<0.0020	<0.0020	<0.0030
	5/28/2024	0.0020	<0.0010	<0.0010	<0.0015
	8/23/2024	<0.0020	<0.0020	<0.0020	<0.0030
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0015
	1/28/2025	<0.0010	<0.0010	<0.0010	<0.0015
	4/8/2025	<0.0010	<0.0010	<0.0010	<0.0015
	8/5/2025	<0.0010	<0.0010	<0.0010	<0.0015
	10/14/2025	<0.0010	<0.0010	<0.0010	<0.0020
<b>MW-02</b>	2/1/2024	<b>0.53</b>	<b>12</b>	<b>1.1</b>	<b>5.2</b>
	5/28/2024	<b>0.17</b>	0.72	<b>0.88</b>	<b>4.4</b>
	8/23/2024	No sample, PSH present			
	11/20/2024	No sample, PSH present			
	1/28/2025	No sample, PSH present			
	4/8/2025	No sample, PSH present			
	8/5/2025	No sample, PSH present			
	10/14/2025	<b>0.074</b>	<b>1.2</b>	<b>0.78</b>	<b>3.9</b>
<b>MW-03</b>	2/1/2024	<b>0.011</b>	0.0026	0.0020	0.010
	5/28/2024	<0.0020	<0.0020	<0.0020	<0.0030
	8/23/2024	<0.0020	<0.0020	<0.0020	<0.0030
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0015
	1/28/2025	<0.0010	<0.0010	<0.0010	<0.0015
	4/8/2025	<0.0010	<0.0010	<0.0010	<0.0015
	8/5/2025	<0.0010	<0.0010	<0.0010	<0.0015
	10/14/2025	<0.0010	<0.0010	<0.0010	<0.0020
<b>MW-04</b>	2/1/2024	<0.0020	<0.0020	<0.0020	<0.0030
	5/28/2024	<0.0010	<0.0010	<0.0010	<0.0015
	8/23/2024	<0.0010	<0.0010	<0.0010	<0.0015
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0015
	1/28/2025	<0.0010	<0.0010	<0.0010	<0.0015
	4/8/2025	<0.0010	<0.0010	<0.0010	<0.0015
	8/5/2025	<0.0010	<0.0010	<0.0010	<0.0015
	10/14/2025	<0.0010	<0.0010	<0.0010	<0.0020

**Notes:**

mg/L: Milligrams per liter

NMWQCC: New Mexico Water Quality Control Commission

PSH: Phase separated hydrocarbons

< : indicates result less than the stated laboratory reporting limit (PQL)

Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



## APPENDIX A

# Laboratory Analytical Reports

---



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 1/30/2025 3:14:08 PM

## JOB DESCRIPTION

Aztec #9

## JOB NUMBER

885-18996-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109



# 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



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

Client: Hilcorp Energy  
Project/Site: Aztec #9

Laboratory Job ID: 885-18996-1



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## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-18996-1

## 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: Aztec #9

Job ID: 885-18996-1

**Job ID: 885-18996-1**

**Eurofins Albuquerque**

## Job Narrative 885-18996-1

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 1/29/2025 7:15 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 1.5°C.

### GC/MS VOA

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



Eurofins Albuquerque

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-18996-1

**Client Sample ID: MW-01**

**Lab Sample ID: 885-18996-1**

Date Collected: 01/28/25 12:00

Matrix: Water

Date Received: 01/29/25 07:15

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			01/29/25 16:47	1
Ethylbenzene	ND		1.0	ug/L			01/29/25 16:47	1
Toluene	ND		1.0	ug/L			01/29/25 16:47	1
Xylenes, Total	ND		1.5	ug/L			01/29/25 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		01/29/25 16:47	1
4-Bromofluorobenzene (Surr)	103		70 - 130		01/29/25 16:47	1
Dibromofluoromethane (Surr)	105		70 - 130		01/29/25 16:47	1
Toluene-d8 (Surr)	100		70 - 130		01/29/25 16:47	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-18996-1

**Client Sample ID: MW-04**

**Lab Sample ID: 885-18996-2**

Date Collected: 01/28/25 11:10

Matrix: Water

Date Received: 01/29/25 07:15

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			01/29/25 17:15	1
Ethylbenzene	ND		1.0	ug/L			01/29/25 17:15	1
Toluene	ND		1.0	ug/L			01/29/25 17:15	1
Xylenes, Total	ND		1.5	ug/L			01/29/25 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		01/29/25 17:15	1
4-Bromofluorobenzene (Surr)	102		70 - 130		01/29/25 17:15	1
Dibromofluoromethane (Surr)	107		70 - 130		01/29/25 17:15	1
Toluene-d8 (Surr)	98		70 - 130		01/29/25 17:15	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-18996-1

**Client Sample ID: MW-03**

**Lab Sample ID: 885-18996-3**

Date Collected: 01/28/25 11:40

Matrix: Water

Date Received: 01/29/25 07:15

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			01/29/25 17:43	1
Ethylbenzene	ND		1.0	ug/L			01/29/25 17:43	1
Toluene	ND		1.0	ug/L			01/29/25 17:43	1
Xylenes, Total	ND		1.5	ug/L			01/29/25 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		01/29/25 17:43	1
4-Bromofluorobenzene (Surr)	101		70 - 130		01/29/25 17:43	1
Dibromofluoromethane (Surr)	107		70 - 130		01/29/25 17:43	1
Toluene-d8 (Surr)	99		70 - 130		01/29/25 17:43	1

### QC Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-18996-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-20044/4  
 Matrix: Water  
 Analysis Batch: 20044

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			01/29/25 13:57	1
Ethylbenzene	ND		1.0	ug/L			01/29/25 13:57	1
Toluene	ND		1.0	ug/L			01/29/25 13:57	1
Xylenes, Total	ND		1.5	ug/L			01/29/25 13:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		01/29/25 13:57	1
4-Bromofluorobenzene (Surr)	100		70 - 130		01/29/25 13:57	1
Dibromofluoromethane (Surr)	106		70 - 130		01/29/25 13:57	1
Toluene-d8 (Surr)	99		70 - 130		01/29/25 13:57	1

Lab Sample ID: LCS 885-20044/3  
 Matrix: Water  
 Analysis Batch: 20044

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.1	23.7		ug/L		118	70 - 130
Toluene	20.2	21.6		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
Toluene-d8 (Surr)	98		70 - 130

### QC Association Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-18996-1

#### GC/MS VOA

#### Analysis Batch: 20044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18996-1	MW-01	Total/NA	Water	8260B	
885-18996-2	MW-04	Total/NA	Water	8260B	
885-18996-3	MW-03	Total/NA	Water	8260B	
MB 885-20044/4	Method Blank	Total/NA	Water	8260B	
LCS 885-20044/3	Lab Control Sample	Total/NA	Water	8260B	

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### Lab Chronicle

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-18996-1

**Client Sample ID: MW-01**  
 Date Collected: 01/28/25 12:00  
 Date Received: 01/29/25 07:15

**Lab Sample ID: 885-18996-1**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	20044	RA	EET ALB	01/29/25 16:47

**Client Sample ID: MW-04**  
 Date Collected: 01/28/25 11:10  
 Date Received: 01/29/25 07:15

**Lab Sample ID: 885-18996-2**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	20044	RA	EET ALB	01/29/25 17:15

**Client Sample ID: MW-03**  
 Date Collected: 01/28/25 11:40  
 Date Received: 01/29/25 07:15

**Lab Sample ID: 885-18996-3**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	20044	RA	EET ALB	01/29/25 17:43

**Laboratory References:**

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

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### Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-18996-1

#### 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	02-26-25																				
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Benzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Ethylbenzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Toluene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																				
8260B		Water	Benzene																				
8260B		Water	Ethylbenzene																				
8260B		Water	Toluene																				
8260B		Water	Xylenes, Total																				
Oregon	NELAP	NM100001	02-25-25																				

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### Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-18996-1

**Login Number: 18996**

**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.	True	
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	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/11/2025 3:15:04 PM

## JOB DESCRIPTION

Aztec #9

## JOB NUMBER

885-22883-1

Eurofins Albuquerque  
 4901 Hawkins NE  
 Albuquerque NM 87109



# 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  
4/11/2025 3:15:04 PM

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

Client: Hilcorp Energy  
Project/Site: Aztec #9

Laboratory Job ID: 885-22883-1



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## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-22883-1

## 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: Aztec #9

Job ID: 885-22883-1

**Job ID: 885-22883-1**

**Eurofins Albuquerque**

## Job Narrative 885-22883-1

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 4/9/2025 7:10 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 2.1°C.

### GC/MS VOA

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



Eurofins Albuquerque

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-22883-1

**Client Sample ID: MW-04**  
**Date Collected: 04/08/25 09:50**  
**Date Received: 04/09/25 07:10**

**Lab Sample ID: 885-22883-1**  
**Matrix: Water**

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			04/11/25 01:12	1
Ethylbenzene	ND		1.0	ug/L			04/11/25 01:12	1
Toluene	ND		1.0	ug/L			04/11/25 01:12	1
Xylenes, Total	ND		1.5	ug/L			04/11/25 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		04/11/25 01:12	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/11/25 01:12	1
Dibromofluoromethane (Surr)	94		70 - 130		04/11/25 01:12	1
Toluene-d8 (Surr)	112		70 - 130		04/11/25 01:12	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-22883-1

**Client Sample ID: MW-01**  
**Date Collected: 04/08/25 10:35**  
**Date Received: 04/09/25 07:10**

**Lab Sample ID: 885-22883-2**  
**Matrix: Water**

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			04/11/25 01:39	1
Ethylbenzene	ND		1.0	ug/L			04/11/25 01:39	1
Toluene	ND		1.0	ug/L			04/11/25 01:39	1
Xylenes, Total	ND		1.5	ug/L			04/11/25 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/11/25 01:39	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/11/25 01:39	1
Dibromofluoromethane (Surr)	104		70 - 130		04/11/25 01:39	1
Toluene-d8 (Surr)	110		70 - 130		04/11/25 01:39	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-22883-1

**Client Sample ID: MW-03**  
**Date Collected: 04/08/25 10:10**  
**Date Received: 04/09/25 07:10**

**Lab Sample ID: 885-22883-3**  
**Matrix: Water**

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			04/11/25 02:07	1
Ethylbenzene	ND		1.0	ug/L			04/11/25 02:07	1
Toluene	ND		1.0	ug/L			04/11/25 02:07	1
Xylenes, Total	ND		1.5	ug/L			04/11/25 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		04/11/25 02:07	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/11/25 02:07	1
Dibromofluoromethane (Surr)	94		70 - 130		04/11/25 02:07	1
Toluene-d8 (Surr)	111		70 - 130		04/11/25 02:07	1

### QC Sample Results

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-22883-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-24067/4  
Matrix: Water  
Analysis Batch: 24067

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			04/10/25 16:59	1
Ethylbenzene	ND		1.0	ug/L			04/10/25 16:59	1
Toluene	ND		1.0	ug/L			04/10/25 16:59	1
Xylenes, Total	ND		1.5	ug/L			04/10/25 16:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/10/25 16:59	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/10/25 16:59	1
Dibromofluoromethane (Surr)	101		70 - 130		04/10/25 16:59	1
Toluene-d8 (Surr)	107		70 - 130		04/10/25 16:59	1

Lab Sample ID: LCS 885-24067/3  
Matrix: Water  
Analysis Batch: 24067

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	22.1		ug/L		111	70 - 130
Toluene	20.0	22.4		ug/L		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	109		70 - 130

# QC Association Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-22883-1

## GC/MS VOA

### Analysis Batch: 24067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22883-1	MW-04	Total/NA	Water	8260B	
885-22883-2	MW-01	Total/NA	Water	8260B	
885-22883-3	MW-03	Total/NA	Water	8260B	
MB 885-24067/4	Method Blank	Total/NA	Water	8260B	
LCS 885-24067/3	Lab Control Sample	Total/NA	Water	8260B	

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# Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-22883-1

**Client Sample ID: MW-04**  
**Date Collected: 04/08/25 09:50**  
**Date Received: 04/09/25 07:10**

**Lab Sample ID: 885-22883-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	24067	JP	EET ALB	04/11/25 01:12

**Client Sample ID: MW-01**  
**Date Collected: 04/08/25 10:35**  
**Date Received: 04/09/25 07:10**

**Lab Sample ID: 885-22883-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	24067	JP	EET ALB	04/11/25 01:39

**Client Sample ID: MW-03**  
**Date Collected: 04/08/25 10:10**  
**Date Received: 04/09/25 07:10**

**Lab Sample ID: 885-22883-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	24067	JP	EET ALB	04/11/25 02:07

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-22883-1

## 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																				
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Benzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Ethylbenzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Toluene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																				
8260B		Water	Benzene																				
8260B		Water	Ethylbenzene																				
8260B		Water	Toluene																				
8260B		Water	Xylenes, Total																				
Oregon	NELAP	NM100001	02-26-26																				





### Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-22883-1

**Login Number: 22883**

**List Source: Eurofins Albuquerque**

**List Number: 1**

**Creator: Dominguez, Desiree**

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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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 8/12/2025 5:28:52 AM

## JOB DESCRIPTION

Aztec #9

## JOB NUMBER

885-30313-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109



# 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  
8/12/2025 5:28:52 AM

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

Client: Hilcorp Energy  
Project/Site: Aztec #9

Laboratory Job ID: 885-30313-1

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## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

## 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: Aztec #9

Job ID: 885-30313-1

**Job ID: 885-30313-1**

**Eurofins Albuquerque**

## Job Narrative 885-30313-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 8/6/2025 7:10 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 1.6°C.

### GC/MS VOA

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

Eurofins Albuquerque



### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-01**

**Lab Sample ID: 885-30313-1**

Date Collected: 08/05/25 10:01

Matrix: Water

Date Received: 08/06/25 07:10

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 19:14	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 19:14	1
Toluene	ND		1.0	ug/L			08/11/25 19:14	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		08/11/25 19:14	1
4-Bromofluorobenzene (Surr)	89		70 - 130		08/11/25 19:14	1
Dibromofluoromethane (Surr)	99		70 - 130		08/11/25 19:14	1
Toluene-d8 (Surr)	110		70 - 130		08/11/25 19:14	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-03**

**Lab Sample ID: 885-30313-2**

Date Collected: 08/05/25 10:33

Matrix: Water

Date Received: 08/06/25 07:10

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 20:40	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 20:40	1
Toluene	ND		1.0	ug/L			08/11/25 20:40	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		08/11/25 20:40	1
4-Bromofluorobenzene (Surr)	91		70 - 130		08/11/25 20:40	1
Dibromofluoromethane (Surr)	102		70 - 130		08/11/25 20:40	1
Toluene-d8 (Surr)	112		70 - 130		08/11/25 20:40	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-04**

**Lab Sample ID: 885-30313-3**

Date Collected: 08/05/25 11:09

Matrix: Water

Date Received: 08/06/25 07:10

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 21:08	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 21:08	1
Toluene	ND		1.0	ug/L			08/11/25 21:08	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		08/11/25 21:08	1
4-Bromofluorobenzene (Surr)	90		70 - 130		08/11/25 21:08	1
Dibromofluoromethane (Surr)	101		70 - 130		08/11/25 21:08	1
Toluene-d8 (Surr)	111		70 - 130		08/11/25 21:08	1

### QC Sample Results

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-32030/4  
Matrix: Water  
Analysis Batch: 32030

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 16:52	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 16:52	1
Toluene	ND		1.0	ug/L			08/11/25 16:52	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 16:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		08/11/25 16:52	1
4-Bromofluorobenzene (Surr)	88		70 - 130		08/11/25 16:52	1
Dibromofluoromethane (Surr)	94		70 - 130		08/11/25 16:52	1
Toluene-d8 (Surr)	111		70 - 130		08/11/25 16:52	1

Lab Sample ID: LCS 885-32030/3  
Matrix: Water  
Analysis Batch: 32030

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	18.1		ug/L		91	70 - 130
Toluene	20.0	22.1		ug/L		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	111		70 - 130

Lab Sample ID: 885-30313-1 MS  
Matrix: Water  
Analysis Batch: 32030

Client Sample ID: MW-01  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		20.0	19.4		ug/L		97	70 - 130
Toluene	ND		20.0	21.9		ug/L		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	110		70 - 130

Lab Sample ID: 885-30313-1 MSD  
Matrix: Water  
Analysis Batch: 32030

Client Sample ID: MW-01  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		20.0	18.8		ug/L		94	70 - 130	3	20
Toluene	ND		20.0	21.2		ug/L		106	70 - 130	3	20

Eurofins Albuquerque

### QC Sample Results

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-30313-1 MSD

Client Sample ID: MW-01

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 32030

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	111		70 - 130

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### QC Association Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### GC/MS VOA

#### Analysis Batch: 32030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30313-1	MW-01	Total/NA	Water	8260B	
885-30313-2	MW-03	Total/NA	Water	8260B	
885-30313-3	MW-04	Total/NA	Water	8260B	
MB 885-32030/4	Method Blank	Total/NA	Water	8260B	
LCS 885-32030/3	Lab Control Sample	Total/NA	Water	8260B	
885-30313-1 MS	MW-01	Total/NA	Water	8260B	
885-30313-1 MSD	MW-01	Total/NA	Water	8260B	

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### Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-01**  
Date Collected: 08/05/25 10:01  
Date Received: 08/06/25 07:10

**Lab Sample ID: 885-30313-1**  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	32030	RA	EET ALB	08/11/25 19:14

**Client Sample ID: MW-03**  
Date Collected: 08/05/25 10:33  
Date Received: 08/06/25 07:10

**Lab Sample ID: 885-30313-2**  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	32030	RA	EET ALB	08/11/25 20:40

**Client Sample ID: MW-04**  
Date Collected: 08/05/25 11:09  
Date Received: 08/06/25 07:10

**Lab Sample ID: 885-30313-3**  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	32030	RA	EET ALB	08/11/25 21:08

**Laboratory References:**

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

### Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### 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																				
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Benzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Ethylbenzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Toluene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																				
8260B		Water	Benzene																				
8260B		Water	Ethylbenzene																				
8260B		Water	Toluene																				
8260B		Water	Xylenes, Total																				
Oregon	NELAP	NM100001	02-26-26																				

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# Chain-of-Custody Record

Client: Hilcorp Energy Company  
 Mailing Address: Mitch Killough  
 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: Aztec #9  
 Project #: \_\_\_\_\_  
 Project Manager: Shyde@ensolum.com  
Stuart Hyde  
 Sampler: D. Good F + Michael P  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 1-8.0-25.6 (°C)  
 Preservative Type: \_\_\_\_\_  
 HEAL No. \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/5/25	10:01	H <sub>2</sub> O	MW-01	VOAS, 3	HCL	
8/5/25	10:33	H <sub>2</sub> O	<del>MW-02</del> MW-03	VOAS, 3	HCL	
8/5/25	11:09	H <sub>2</sub> O	MW-03 of MW-04	VOAS, 3	HCL	
			<del>MW-04</del> of			

Relinquished by: [Signature] Date: 5/8/25 Time: 1350  
 Relinquished by: [Signature] Date: 8/6/25 Time: 7:10  
 Received by: [Signature] Date: 5/8/25 Time: 1350  
 Received by: [Signature] Date: 8/6/25 Time: 7:10

## Analysis Request

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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA) <u>BTEX only</u>	8270 (Semi-VOA)	Total Coliform (Present/Absent)
----------------------------	----------------------------	----------------------------	--------------------	--------------------------	---------------	--	-----------------------------	-----------------	---------------------------------

Remarks: CC : O.Froelich@ensolum.com  
M.Pollock@ensolum.com  
 For NMDCD

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: 885-30313-1

**Login Number: 30313**

**List Number: 1**

**Creator: Casarrubias, Tracy**

**List Source: Eurofins Albuquerque**

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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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 8/12/2025 5:28:52 AM

## JOB DESCRIPTION

Aztec #9

## JOB NUMBER

885-30313-1

Eurofins Albuquerque  
 4901 Hawkins NE  
 Albuquerque NM 87109



# Eurofins Albuquerque

## Job Notes

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## Authorization



Generated  
8/12/2025 5:28:52 AM

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

Client: Hilcorp Energy  
Project/Site: Aztec #9

Laboratory Job ID: 885-30313-1

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## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

## 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: Aztec #9

Job ID: 885-30313-1

**Job ID: 885-30313-1**

**Eurofins Albuquerque**

## Job Narrative 885-30313-1

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- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 8/6/2025 7:10 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 1.6°C.

### GC/MS VOA

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

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### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-01**

**Lab Sample ID: 885-30313-1**

Date Collected: 08/05/25 10:01

Matrix: Water

Date Received: 08/06/25 07:10

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 19:14	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 19:14	1
Toluene	ND		1.0	ug/L			08/11/25 19:14	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 130				08/11/25 19:14	1
4-Bromofluorobenzene (Surr)	89		70 - 130				08/11/25 19:14	1
Dibromofluoromethane (Surr)	99		70 - 130				08/11/25 19:14	1
Toluene-d8 (Surr)	110		70 - 130				08/11/25 19:14	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-03**

**Lab Sample ID: 885-30313-2**

Date Collected: 08/05/25 10:33

Matrix: Water

Date Received: 08/06/25 07:10

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 20:40	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 20:40	1
Toluene	ND		1.0	ug/L			08/11/25 20:40	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		08/11/25 20:40	1
4-Bromofluorobenzene (Surr)	91		70 - 130		08/11/25 20:40	1
Dibromofluoromethane (Surr)	102		70 - 130		08/11/25 20:40	1
Toluene-d8 (Surr)	112		70 - 130		08/11/25 20:40	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-04**

**Lab Sample ID: 885-30313-3**

Date Collected: 08/05/25 11:09

Matrix: Water

Date Received: 08/06/25 07:10

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 21:08	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 21:08	1
Toluene	ND		1.0	ug/L			08/11/25 21:08	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		08/11/25 21:08	1
4-Bromofluorobenzene (Surr)	90		70 - 130		08/11/25 21:08	1
Dibromofluoromethane (Surr)	101		70 - 130		08/11/25 21:08	1
Toluene-d8 (Surr)	111		70 - 130		08/11/25 21:08	1

### QC Sample Results

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-32030/4  
Matrix: Water  
Analysis Batch: 32030

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/11/25 16:52	1
Ethylbenzene	ND		1.0	ug/L			08/11/25 16:52	1
Toluene	ND		1.0	ug/L			08/11/25 16:52	1
Xylenes, Total	ND		1.5	ug/L			08/11/25 16:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		08/11/25 16:52	1
4-Bromofluorobenzene (Surr)	88		70 - 130		08/11/25 16:52	1
Dibromofluoromethane (Surr)	94		70 - 130		08/11/25 16:52	1
Toluene-d8 (Surr)	111		70 - 130		08/11/25 16:52	1

Lab Sample ID: LCS 885-32030/3  
Matrix: Water  
Analysis Batch: 32030

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	18.1		ug/L		91	70 - 130
Toluene	20.0	22.1		ug/L		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	111		70 - 130

Lab Sample ID: 885-30313-1 MS  
Matrix: Water  
Analysis Batch: 32030

Client Sample ID: MW-01  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		20.0	19.4		ug/L		97	70 - 130
Toluene	ND		20.0	21.9		ug/L		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	110		70 - 130

Lab Sample ID: 885-30313-1 MSD  
Matrix: Water  
Analysis Batch: 32030

Client Sample ID: MW-01  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		20.0	18.8		ug/L		94	70 - 130	3	20
Toluene	ND		20.0	21.2		ug/L		106	70 - 130	3	20

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### QC Sample Results

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-30313-1 MSD

Client Sample ID: MW-01

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 32030

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	111		70 - 130

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### QC Association Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### GC/MS VOA

#### Analysis Batch: 32030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30313-1	MW-01	Total/NA	Water	8260B	
885-30313-2	MW-03	Total/NA	Water	8260B	
885-30313-3	MW-04	Total/NA	Water	8260B	
MB 885-32030/4	Method Blank	Total/NA	Water	8260B	
LCS 885-32030/3	Lab Control Sample	Total/NA	Water	8260B	
885-30313-1 MS	MW-01	Total/NA	Water	8260B	
885-30313-1 MSD	MW-01	Total/NA	Water	8260B	

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### Lab Chronicle

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-30313-1

**Client Sample ID: MW-01**  
 Date Collected: 08/05/25 10:01  
 Date Received: 08/06/25 07:10

**Lab Sample ID: 885-30313-1**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	32030	RA	EET ALB	08/11/25 19:14

**Client Sample ID: MW-03**  
 Date Collected: 08/05/25 10:33  
 Date Received: 08/06/25 07:10

**Lab Sample ID: 885-30313-2**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	32030	RA	EET ALB	08/11/25 20:40

**Client Sample ID: MW-04**  
 Date Collected: 08/05/25 11:09  
 Date Received: 08/06/25 07:10

**Lab Sample ID: 885-30313-3**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	32030	RA	EET ALB	08/11/25 21:08

**Laboratory References:**

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

### Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-30313-1

#### 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																				
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Benzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Ethylbenzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Toluene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																				
8260B		Water	Benzene																				
8260B		Water	Ethylbenzene																				
8260B		Water	Toluene																				
8260B		Water	Xylenes, Total																				
Oregon	NELAP	NM100001	02-26-26																				

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# Chain-of-Custody Record

Client: Hilcorp Energy Company  
 Mailing Address: Mitch Killough  
 Phone #: \_\_\_\_\_  
 email or Fax#: mk:llough@hilcorp.com  
 QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time:  Standard  Rush  
 Project Name: Aztec #9  
 Project #: \_\_\_\_\_  
 Project Manager: Shyde@ensolum.com  
Stuart Hyde  
 Sampler: Dagood F + Michael P  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 1-8.0-25.6 (°C)  
 Abby

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/5/25	10:01	H <sub>2</sub> O	MW-01	VOAS, 3	HCL	
8/5/25	10:33	H <sub>2</sub> O	<del>MW-02</del> MW-03	VOAS, 3	HCL	
8/5/25	11:09	H <sub>2</sub> O	<del>MW-03</del> MW-04	VOAS, 3	HCL	
			<del>MW-04</del> OF			

Analysis Request	
BTEX / MTBE / TMB's (8021)	TFH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's	EDB (Method 504.1)
PAHs by 8310 or 8270SIMS	RCRA 8 Metals
CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA) <u>BTEX only</u>
8270 (Semi-VOA)	Total Coliform (Present/Absent)

Remarks: CC : OFroelich@ensolum.com  
M Pollock@ensolum.com  
 For NMDCD

Relinquished by: [Signature] Date: 5/8/25 Time: 1350  
 Relinquished by: [Signature] Date: 8/6/25 Time: 7:10

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: 885-30313-1

**Login Number: 30313**

**List Number: 1**

**Creator: Casarrubias, Tracy**

**List Source: Eurofins Albuquerque**

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	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 10/22/2025 6:57:47 PM

## JOB DESCRIPTION

Aztec #9

## JOB NUMBER

885-35533-1

Eurofins Albuquerque  
 4901 Hawkins NE  
 Albuquerque NM 87109



# 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  
10/22/2025 6:57:47 PM

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

Client: Hilcorp Energy  
Project/Site: Aztec #9

Laboratory Job ID: 885-35533-1

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## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-35533-1

## 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: Aztec #9

Job ID: 885-35533-1

**Job ID: 885-35533-1**

**Eurofins Albuquerque**

## Job Narrative 885-35533-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 10/15/2025 7:30 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 1.3°C.

### GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW02 (885-35533-4). Elevated reporting limits (RLs) are provided.

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

Eurofins Albuquerque



### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-35533-1

**Client Sample ID: MW01**

**Lab Sample ID: 885-35533-1**

Date Collected: 10/14/25 10:19

Matrix: Water

Date Received: 10/15/25 07:30

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0020	mg/L			10/22/25 13:15	1
m,p-Xylenes	ND		0.0020	mg/L			10/22/25 13:15	1
o-Xylene	ND		0.0010	mg/L			10/22/25 13:15	1
Benzene	ND		0.0010	mg/L			10/22/25 13:15	1
Ethylbenzene	ND		0.0010	mg/L			10/22/25 13:15	1
Toluene	ND		0.0010	mg/L			10/22/25 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		10/22/25 13:15	1
4-Bromofluorobenzene (Surr)	101		74 - 124		10/22/25 13:15	1
Dibromofluoromethane (Surr)	100		75 - 131		10/22/25 13:15	1
Toluene-d8 (Surr)	96		80 - 120		10/22/25 13:15	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-35533-1

**Client Sample ID: MW03**

**Lab Sample ID: 885-35533-2**

Date Collected: 10/14/25 11:09

Matrix: Water

Date Received: 10/15/25 07:30

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0020	mg/L			10/22/25 13:36	1
m,p-Xylenes	ND		0.0020	mg/L			10/22/25 13:36	1
o-Xylene	ND		0.0010	mg/L			10/22/25 13:36	1
Benzene	ND		0.0010	mg/L			10/22/25 13:36	1
Ethylbenzene	ND		0.0010	mg/L			10/22/25 13:36	1
Toluene	ND		0.0010	mg/L			10/22/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		10/22/25 13:36	1
4-Bromofluorobenzene (Surr)	98		74 - 124		10/22/25 13:36	1
Dibromofluoromethane (Surr)	103		75 - 131		10/22/25 13:36	1
Toluene-d8 (Surr)	98		80 - 120		10/22/25 13:36	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-35533-1

**Client Sample ID: MW04**

**Lab Sample ID: 885-35533-3**

Date Collected: 10/14/25 11:56

Matrix: Water

Date Received: 10/15/25 07:30

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0020	mg/L			10/22/25 13:56	1
m,p-Xylenes	ND		0.0020	mg/L			10/22/25 13:56	1
o-Xylene	ND		0.0010	mg/L			10/22/25 13:56	1
Benzene	ND		0.0010	mg/L			10/22/25 13:56	1
Ethylbenzene	ND		0.0010	mg/L			10/22/25 13:56	1
Toluene	ND		0.0010	mg/L			10/22/25 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		10/22/25 13:56	1
4-Bromofluorobenzene (Surr)	104		74 - 124		10/22/25 13:56	1
Dibromofluoromethane (Surr)	100		75 - 131		10/22/25 13:56	1
Toluene-d8 (Surr)	103		80 - 120		10/22/25 13:56	1

### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-35533-1

**Client Sample ID: MW02**

**Lab Sample ID: 885-35533-4**

Date Collected: 10/14/25 12:53

Matrix: Water

Date Received: 10/15/25 07:30

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	3.9		0.10	mg/L			10/22/25 14:17	50
m,p-Xylenes	3.8		0.10	mg/L			10/22/25 14:17	50
o-Xylene	0.081		0.050	mg/L			10/22/25 14:17	50
Benzene	0.074		0.050	mg/L			10/22/25 14:17	50
Ethylbenzene	0.78		0.050	mg/L			10/22/25 14:17	50
Toluene	1.2		0.050	mg/L			10/22/25 14:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144		10/22/25 14:17	50
4-Bromofluorobenzene (Surr)	104		74 - 124		10/22/25 14:17	50
Dibromofluoromethane (Surr)	100		75 - 131		10/22/25 14:17	50
Toluene-d8 (Surr)	101		80 - 120		10/22/25 14:17	50

### QC Sample Results

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-35533-1

#### Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-270107/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 270107

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0020	mg/L			10/22/25 12:14	1
m,p-Xylenes	ND		0.0020	mg/L			10/22/25 12:14	1
o-Xylene	ND		0.0010	mg/L			10/22/25 12:14	1
Benzene	ND		0.0010	mg/L			10/22/25 12:14	1
Ethylbenzene	ND		0.0010	mg/L			10/22/25 12:14	1
Toluene	ND		0.0010	mg/L			10/22/25 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144		10/22/25 12:14	1
4-Bromofluorobenzene (Surr)	102		74 - 124		10/22/25 12:14	1
Dibromofluoromethane (Surr)	101		75 - 131		10/22/25 12:14	1
Toluene-d8 (Surr)	103		80 - 120		10/22/25 12:14	1

Lab Sample ID: LCS 860-270107/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 270107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.0500	0.0509		mg/L		102	70 - 130
o-Xylene	0.0500	0.0513		mg/L		103	70 - 130
Benzene	0.0500	0.0480		mg/L		96	70 - 130
Ethylbenzene	0.0500	0.0518		mg/L		104	70 - 130
Toluene	0.0500	0.0521		mg/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 860-270107/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 270107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	0.0500	0.0475		mg/L		95	70 - 130	7	25
o-Xylene	0.0500	0.0477		mg/L		95	70 - 130	7	25
Benzene	0.0500	0.0474		mg/L		95	70 - 130	1	25
Ethylbenzene	0.0500	0.0470		mg/L		94	70 - 130	10	25
Toluene	0.0500	0.0479		mg/L		96	70 - 130	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	94		80 - 120

Eurofins Albuquerque

### QC Sample Results

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-35533-1

#### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 885-35533-1 MS  
 Matrix: Water  
 Analysis Batch: 270107

Client Sample ID: MW01  
 Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
m,p-Xylenes	ND		0.0500	0.0496		mg/L		99	70 - 130
o-Xylene	ND		0.0500	0.0504		mg/L		101	70 - 130
Benzene	ND		0.0500	0.0458		mg/L		92	70 - 130
Ethylbenzene	ND		0.0500	0.0506		mg/L		101	70 - 130
Toluene	ND		0.0500	0.0501		mg/L		100	70 - 130
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	95		63 - 144						
4-Bromofluorobenzene (Surr)	105		74 - 124						
Dibromofluoromethane (Surr)	96		75 - 131						
Toluene-d8 (Surr)	99		80 - 120						

### QC Association Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-35533-1

#### GC/MS VOA

#### Analysis Batch: 270107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-35533-1	MW01	Total/NA	Water	8260C	
885-35533-2	MW03	Total/NA	Water	8260C	
885-35533-3	MW04	Total/NA	Water	8260C	
885-35533-4	MW02	Total/NA	Water	8260C	
MB 860-270107/9	Method Blank	Total/NA	Water	8260C	
LCS 860-270107/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-270107/4	Lab Control Sample Dup	Total/NA	Water	8260C	
885-35533-1 MS	MW01	Total/NA	Water	8260C	

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### Lab Chronicle

Client: Hilcorp Energy  
 Project/Site: Aztec #9

Job ID: 885-35533-1

**Client Sample ID: MW01**  
 Date Collected: 10/14/25 10:19  
 Date Received: 10/15/25 07:30

**Lab Sample ID: 885-35533-1**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	270107	MS	EET HOU	10/22/25 13:15

**Client Sample ID: MW03**  
 Date Collected: 10/14/25 11:09  
 Date Received: 10/15/25 07:30

**Lab Sample ID: 885-35533-2**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	270107	MS	EET HOU	10/22/25 13:36

**Client Sample ID: MW04**  
 Date Collected: 10/14/25 11:56  
 Date Received: 10/15/25 07:30

**Lab Sample ID: 885-35533-3**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	270107	MS	EET HOU	10/22/25 13:56

**Client Sample ID: MW02**  
 Date Collected: 10/14/25 12:53  
 Date Received: 10/15/25 07:30

**Lab Sample ID: 885-35533-4**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	270107	MS	EET HOU	10/22/25 14:17

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

### Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Aztec #9

Job ID: 885-35533-1

#### Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-05-26
Florida	NELAP	E871002	06-30-26
Louisiana (All)	NELAP	03054	06-30-26
New Mexico	State	TX00122	06-30-26
Oklahoma	NELAP	1306	12-31-25
Texas	NELAP	T104704215	06-30-26
Texas	TCEQ Water Supply	T104704215	12-30-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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### Chain-of-Custody Record

Client: Hilcorp

Turn-Around Time:  Standard  Rush

Project Name: Aztec #9

Project #: \_\_\_\_\_

Project Manager: Stuart Hyde

Project Manager email: shyde@ensohum.com

Sampler: MP

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CP): 1.40.2.13 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
	10/14	H <sub>2</sub> O	MW01	3 VOA's	see	
	1104		MW03			
	1156		MW04			
	1253		MW02			

Date	Time	Relinquished by	Received by	Date	Time
10/14	1347	<u>[Signature]</u>	<u>John Waga</u>	10/14/25	1347
10/14/25	1730	<u>[Signature]</u>	<u>[Signature]</u>	10/15/25	7:30



www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107  
 885-35533 COC

Analysis Request	
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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA) BTEX only	X
8270 (semi VOA) BTEX only	X
Total Coliform (Present/Absent)	

Remarks: CC: mpollack@ensohum.com  
shyde@ensohum.com  
 8260 BTEX only

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.



**Eurofins Albuquerque**

4901 Hawkins NE  
 Albuquerque, NM 87109  
 Phone: 505-345-3975 Fax: 505-345-4107

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler	N/A	Lab P.N.	Garcia, Michelle	CCC No:	885-6973.1		
Client Contact:		Phone:	N/A	E-Mail:	michelle.garcia@eurofins.com	State of Origin:	New Mexico		
Shipping/Receiving		N/A		Accreditations Required (See note):		Page:	Page 1 of 1		
Company:		Eurofins Environment Testing South Cent		NELAP Oregon, State New Mexico		Job #:	885-35533-1		
Address:		Due Date Requested:	10/22/2025	Analysis Requested		Preservation Codes:			
4145 Greenbriar Dr		TAT Requested (days):	N/A						
City:		Stafford							
State, Zip:		TX 77477							
Phone:		281-240-4200(Tel)							
Email:		N/A							
Project Name:		AZtec #9							
Site:		N/A							
SSOW#: N/A									
Project #: 88501698									
Other:									
N/A									
<b>Sample Identification Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (G=comp, G=grab)</b>	<b>Matrix (Hydrocarbon, Specific, Operational, Petroleum, Anal)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
MMW01 (885-35533-1)	10/14/25	10:19	Mountain	G	Water	X	X	3	
MMW03 (885-35533-2)	10/14/25	11:09	Mountain	G	Water	X	X	3	
MMW04 (885-35533-3)	10/14/25	11:56	Mountain	G	Water	X	X	3	
MMW02 (885-35533-4)	10/14/25	12:33	Mountain	G	Water	X	X	3	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/method/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing South Central, LLC.</p>									
<b>Possible Hazard Identification</b>		<b>Unconfirmed</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, III, IV Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date/Time:	Company:	Method of Shipment:		<b>Received</b>			
Relinquished by:		Date/Time:	Company:	Received by:		OCT 16 2025			
Relinquished by:		Date/Time:	Company:	Received by:		Time: 4:00			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:					
				27					

### Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-35533-1

**Login Number: 35533**

**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	

### Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-35533-1

Login Number: 35533

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 10/16/25 10:33 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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.	True	
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	



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**

CONDITIONS

Action 561084

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 561084
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	3/13/2026