



July 14, 2025

**New Mexico Oil Conservation Division**

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

**Re: Site Remediation Report and Closure Request**

Chavez Gas Com C 1R  
Hilcorp Energy Company  
NMOCD Incident No: nAPP2514041145

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Remediation Report and Closure Request* associated with a historical release originating from the below-grade tank (BGT) at the Chavez Gas Com C 1R natural gas production well (Site). The Site is located on private land in Unit J, Section 23, Township 29 North, Range 10 West, in San Juan County, New Mexico (Figure 1).

## **SITE BACKGROUND**

On April 7, 2025, upon closure and removal of the Site 120-barrel produced water BGT, Hilcorp collected one five-point composite soil sample from directly beneath the BGT in accordance with the BGT Closure Plan and Title 19, Chapter 15, Part 17 of the New Mexico Administrative Code (NMAC). The sample was collected at a depth of 6 feet below ground surface (bgs) and was submitted to Eurofins Analytical Testing (Eurofins) in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and chloride constituents. Analytical results indicated TPH concentrations exceeded the BGT permit closure requirement and additional sampling was necessary to delineate and determine the extent and volume of impacted soil present at the Site.

Based on additional delineation sampling conducted on April 30, 2025 (further described below), it was estimated that approximately 59 cubic yards of soil were impacted by the historical release from the BGT. As such, Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) Incidents group within 15 days of discovery and submitted an initial *Notification of Release* on May 20, 2025. NMOCD assigned the Site Incident Number nAPP2514041145.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with 19.15.29.11 and 12NMAC.

The Site is located in Quaternary age alluvial deposits associated with the Animas River drainage. The alluvial sediment is likely underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the

alluvial deposits vary greatly across the basin in both hydrologic properties and water quality. Where present in sufficient quantity and quality, wells are located in this formation for stock, irrigation, and domestic use. The Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarse-grained sandstones, which range in thickness from 418 feet to 2,232 feet. The hydrogeologic properties of the Nacimiento Formation vary dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The Nacimiento Formation is underlain by the Ojo Alamo sandstone (Stone et. al., 1983).

The closest significant watercourse is an agricultural irrigation ditch located 290 feet south of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and is approximately 280 feet from a wetland (Figure 1, shown to the south of Site). The nearest fresh-water well is New Mexico Office of the State Engineer (NMOSE) permitted well SJ-02820, located approximately 610 feet northwest of the Site. The recorded depth to water on the NMOSE database is 16 feet bgs. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology. Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

## SITE CLOSURE CRITERIA

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

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

## SITE ASSESSMENT ACTIVITIES

To assess the lateral and vertical extent of impacts found beneath the BGT, Hilcorp retained Ensolum to conduct pothole delineation activities on April 30, 2025. In total, five potholes (PH01 through PH05) were advanced at the Site to depths up to 12 feet bgs. Pothole soils were field screened for petroleum hydrocarbon staining and odors during advancement, and were additionally field screened for the presence of organic vapors using a calibrated photoionization detector (PID), with results recorded in the field notes and PID results summarized in Table 1. Based on field screening results, two soil samples from each pothole were collected for laboratory analysis: one from the depth interval with the highest observed contamination and one from the terminus of the pothole. Those soil samples were collected directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Eurofins Environment Testing (Eurofins) for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH following Method 8015M/D, and chloride following EPA Method 300.0.

Based on the laboratory analytical results, all COC concentrations were either detected at concentrations below the NMOCD Table I Closure Criteria or were not detected above the applicable laboratory reporting limits. These results indicated impacted soil was likely limited to the area directly beneath the BGT and it was estimated that an areal extent of 20 feet by 20 feet was impacted by the historical release between depths of approximately 6 feet and 10 feet bgs. Based on these estimates, approximately 59 cubic yards of impacted soil were present at the

Site. Delineation soil sample analytical results are summarized in Table 1 and on Figure 2, with complete laboratory analytical reports attached as Appendix A.

## EXCAVATION AND CONFIRMATION SAMPLING ACTIVITIES

Based on the delineation results described above, excavation and offsite disposal were selected as the appropriate remedial action for the Site. Initial excavation efforts were performed on May 28, 2025. Notification of the planned remediation and sampling activities was submitted to the NMOCD at least two business days in advance, with a copy of the correspondence provided in Appendix B. During excavation, Ensolum personnel used a calibrated PID to field screen soils for organic vapors, guiding the extent of excavation. Once field screening indicated impacted soil had been removed the excavation measured approximately 17 feet by 20 feet and 10 feet deep. As such, confirmation soil samples were collected from the excavation floor (FS01 and FS02) and sidewalls (SW01 through SW04). Samples were collected at a frequency of one per 200 square feet, in accordance with NMOCD requirements. Floor samples were collected from a depth of approximately 10 feet bgs, and sidewall samples were collected from the ground surface to a depth of 10 feet bgs. The location of the excavation samples and excavation extent is shown on Figure 3.

Each five-point composite confirmation sample was collected by placing equal aliquots of soil into a resealable plastic bag, homogenizing the sample, and transferring the material into laboratory-supplied containers and immediately placing it on ice. Samples were transported under strict chain-of-custody procedures to Envirotech analytical laboratory in Farmington, New Mexico for analysis of TPH, BTEX, and chloride using the methods described above.

Analytical results indicated all confirmation samples met the NMOCD Table I Closure Criteria for TPH, BTEX, and chloride with the exception of sidewall sample SW04 which contained chloride exceeding the Closure Criteria of 600 mg/kg. Because of the exceedance, Hilcorp mobilized to the Site on June 11, 2025 to remove additional soil from the sidewall. Approximately 3 feet of additional soil was removed from the west sidewall and samples were recollected using the methods described above. Sidewall sample SW05 was collected from the newly exposed soil and submitted to Envirotech for analysis of TPH, BTEX, and Chloride. Analytical results indicated that all COC concentrations were compliant with the applicable NMOCD Table I Closure Criteria.

The excavation covered an areal extent of approximately 400 square feet to a depth of 10 feet bgs. Impacted soil removed from the Site was transported to the Envirotech Landfarm in San Juan County, New Mexico for disposal/treatment. A summary of confirmation soil sample results is provided in Table 1. Complete laboratory reports included in Appendix A, with photographs documenting excavation activities provided in Appendix C.

## CLOSURE REQUEST

Excavation and confirmation soil sampling activities were completed at the Site to address the release discovered during BGT closure activities. Laboratory analytical results from confirmation soil samples collected from the final excavation extent demonstrated all COC concentrations were below the applicable NMOCD Table I Closure Criteria and satisfied the reclamation requirements. As a result, no further remedial action is warranted. Excavation of impacted soil has effectively mitigated the release and eliminated potential exposure pathways to human health, the environment, and groundwater. Accordingly, Hilcorp respectfully requests regulatory closure of Incident Number nAPP2514041145.

## REFERENCES

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

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

Sincerely,  
**Ensolum, LLC**



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## Attachments:

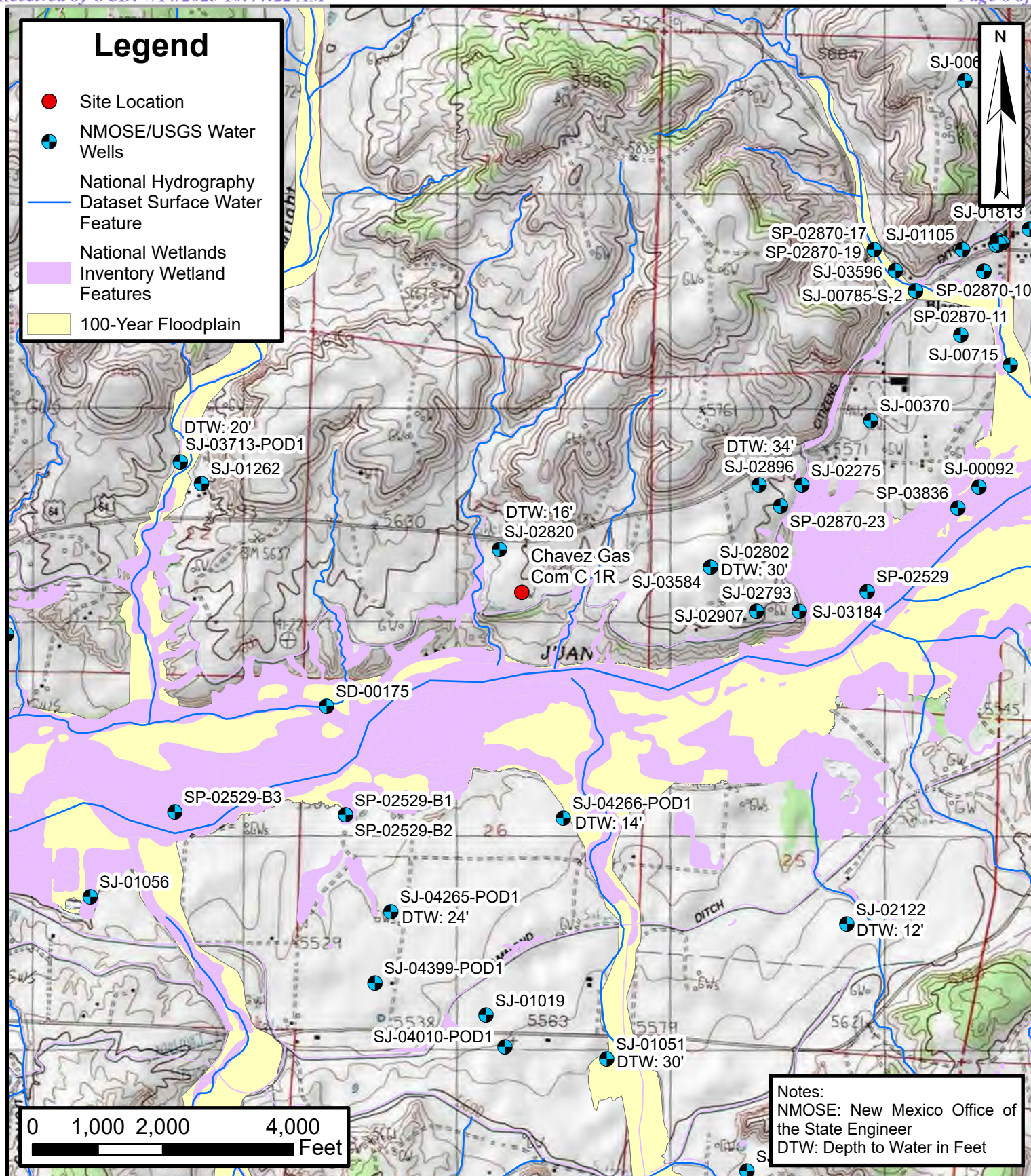
Figure 1: Site Location Map  
Figure 2: Soil Sample Location Map  
Figure 3: Excavation Soil Sample Location Map  
  
Table 1: Soil Sample Analytical Results  
  
Appendix A: Laboratory Analytical Reports  
Appendix B: Agency Sampling Notification  
Appendix C: Photographic Log





FIGURES

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## Site Location Map

Chavez Gas Com C 1R  
Hilcorp Energy Company

36.708610, -107.852020  
San Juan County, New Mexico

FIGURE

1





# Legend

- Soil Sample Location in Compliance with NMOCD Closure Criteria
- Utilities



## Soil Sample Location Map

Chavez Gas Com C 1R  
Hilcorp Energy Company

36.708610, -107.852020  
San Juan County, New Mexico

FIGURE  
**2**





## Excavation Soil Sample Location Map

Chavez Gas Com C 1R  
 Hilcorp Energy Company

36.708610, -107.852020  
 San Juan County, New Mexico

**FIGURE**  
**3**



TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Chavez Gas Com C 1R  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCOD Closure Criteria for Soils Impacted by a Release</b>			NE	10	NE	NE	NE	50	NE	NE	NE	100	600
<b>BGT Closure Soil Analytical Results</b>													
Bottom Comp 6'	4/7/2025	6	—	<2.5	46	39	479	546	5,900	790	53	6,743	<60
<b>Delineation Soil Sample Analytical Results</b>													
PH01@11'	4/30/2025	11	238.8	<0.024	<0.048	<0.048	0.22	0.22	<4.8	<9.2	<46	<46	<60
PH01@12'	4/30/2025	12	318.3	<0.024	<0.049	0.12	1.0	1.1	55	14	<46	69	<60
PH02@4'	4/30/2025	4	7.0	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<60
PH02@10'	4/30/2025	10	7.3	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	160
PH03@4'	4/30/2025	4	8.1	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<48	<48	170
PH03@10'	4/30/2025	10	7.7	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<49	170
PH04@8'	4/30/2025	8	6.7	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	<60
PH04@10'	4/30/2025	10	8.0	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
PH05@8'	4/30/2025	8	8.5	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.8	<49	<49	<60
PH05@10'	4/30/2025	10	2.6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<49	<49	300
<b>Excavation Soil Sample Analytical Results</b>													
FS01	5/28/2025	10	65.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	137
FS02	5/28/2025	10	75.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
SW01	5/28/2025	0-10	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	423
SW02	5/28/2025	0-10	4.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
SW03	5/28/2025	0-10	17.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	92.9
SW04	5/28/2025	0-10	14.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	1,010
SW05	6/11/2025	0-10	6.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	92.1

**Notes:**

': Feet

bgs: Below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

NE: Not Established

NMOCOD: New Mexico Oil Conservation Division

PID: Photoionization detector

ppm: Parts per million

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

&lt;: Indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release

Grey and strikethrough text represents samples that have been excavated





## APPENDIX A

### Laboratory Analytical Reports

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/21/2025 11:04:28 AM

## JOB DESCRIPTION

Chavez GC C 1R

## JOB NUMBER

885-23206-1

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  
4/21/2025 11:04:28 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: Chavez GC C 1R

Laboratory Job ID: 885-23206-1

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Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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: Chavez GC C 1R

Job ID: 885-23206-1

**Job ID: 885-23206-1**

**Eurofins Albuquerque**

### Job Narrative 885-23206-1

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 sample was received on 4/15/2025 7:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

#### Gasoline Range Organics

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

#### GC VOA

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

#### Diesel Range Organics

Method 8015D\_DRO: Surrogate recovery for the following sample was outside the upper control limit: (MB 885-24387/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

#### HPLC/IC

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

Eurofins Albuquerque



## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

Client Sample ID: Bottom Comp 6'

Lab Sample ID: 885-23206-1

Date Collected: 04/07/25 10:15

Matrix: Solid

Date Received: 04/15/25 07:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	5900		500	mg/Kg		04/15/25 13:22	04/17/25 17:36	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	35 - 166			04/15/25 13:22	04/17/25 17:36	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.5	mg/Kg		04/15/25 13:22	04/17/25 17:36	100
Ethylbenzene	30		5.0	mg/Kg		04/15/25 13:22	04/17/25 17:36	100
Toluene	16		5.0	mg/Kg		04/15/25 13:22	04/17/25 17:36	100
Xylenes, Total	470		9.9	mg/Kg		04/15/25 13:22	04/17/25 17:36	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		48 - 145			04/15/25 13:22	04/17/25 17:36	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	790		9.5	mg/Kg		04/16/25 13:17	04/17/25 18:13	1
Motor Oil Range Organics [C28-C40]	53		48	mg/Kg		04/16/25 13:17	04/17/25 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			04/16/25 13:17	04/17/25 18:13	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		04/17/25 08:43	04/17/25 17:49	20

Eurofins Albuquerque

## QC Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

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

Lab Sample ID: MB 885-24304/1-A

Matrix: Solid

Analysis Batch: 24426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24304

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/15/25 13:22	04/17/25 04:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			04/15/25 13:22	04/17/25 04:06	1

Lab Sample ID: LCS 885-24304/2-A

Matrix: Solid

Analysis Batch: 24426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	25.7		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	203	S1+	35 - 166				

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

Lab Sample ID: MB 885-24304/1-A

Matrix: Solid

Analysis Batch: 24427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24304

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/15/25 13:22	04/17/25 04:06	1
Ethylbenzene	ND		0.050	mg/Kg		04/15/25 13:22	04/17/25 04:06	1
Toluene	ND		0.050	mg/Kg		04/15/25 13:22	04/17/25 04:06	1
Xylenes, Total	ND		0.10	mg/Kg		04/15/25 13:22	04/17/25 04:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			04/15/25 13:22	04/17/25 04:06	1

Lab Sample ID: LCS 885-24304/3-A

Matrix: Solid

Analysis Batch: 24427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.08		mg/Kg		108	70 - 130
Ethylbenzene	1.00	1.03		mg/Kg		103	70 - 130
m&p-Xylene	2.00	2.07		mg/Kg		104	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.03		mg/Kg		103	70 - 130
Xylenes, Total	3.00	3.11		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		48 - 145				

Eurofins Albuquerque

## QC Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

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

Lab Sample ID: MB 885-24387/1-A

Matrix: Solid

Analysis Batch: 24440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24387

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/16/25 13:17	04/17/25 13:17	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/16/25 13:17	04/17/25 13:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	159	S1+	62 - 134			04/16/25 13:17	04/17/25 13:17	1

Lab Sample ID: LCS 885-24387/2-A

Matrix: Solid

Analysis Batch: 24440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	60.3		mg/Kg		121	60 - 135	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	125		62 - 134					

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-24443/1-A

Matrix: Solid

Analysis Batch: 24448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24443

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		04/17/25 08:43	04/17/25 11:41	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	30.0		30.2	mg/Kg		101	90 - 110	

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## QC Association Summary

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

## GC VOA

## Prep Batch: 24304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	5030C	
MB 885-24304/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-24304/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-24304/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Analysis Batch: 24426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-24304/1-A	Method Blank	Total/NA	Solid	8015M/D	24304
LCS 885-24304/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	24304

## Analysis Batch: 24427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-24304/1-A	Method Blank	Total/NA	Solid	8021B	24304
LCS 885-24304/3-A	Lab Control Sample	Total/NA	Solid	8021B	24304

## Analysis Batch: 24569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	8015M/D	24304

## Analysis Batch: 24570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	8021B	24304

## GC Semi VOA

## Prep Batch: 24387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	SHAKE	
MB 885-24387/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-24387/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## Analysis Batch: 24440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	8015M/D	24387
MB 885-24387/1-A	Method Blank	Total/NA	Solid	8015M/D	24387
LCS 885-24387/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	24387

## HPLC/IC

## Prep Batch: 24443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	300_Prep	
MB 885-24443/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-24443/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 24448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-23206-1	Bottom Comp 6'	Total/NA	Solid	300.0	24443
MB 885-24443/1-A	Method Blank	Total/NA	Solid	300.0	24443
LCS 885-24443/2-A	Lab Control Sample	Total/NA	Solid	300.0	24443

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Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

Client Sample ID: Bottom Comp 6'  
Date Collected: 04/07/25 10:15  
Date Received: 04/15/25 07:15

Lab Sample ID: 885-23206-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			24304	JP	EET ALB	04/15/25 13:22
Total/NA	Analysis	8015M/D		100	24569	AT	EET ALB	04/17/25 17:36
Total/NA	Prep	5030C			24304	JP	EET ALB	04/15/25 13:22
Total/NA	Analysis	8021B		100	24570	AT	EET ALB	04/17/25 17:36
Total/NA	Prep	SHAKE			24387	MI	EET ALB	04/16/25 13:17
Total/NA	Analysis	8015M/D		1	24440	EM	EET ALB	04/17/25 18:13
Total/NA	Prep	300_Prep			24443	JT	EET ALB	04/17/25 08:43
Total/NA	Analysis	300.0		20	24448	DL	EET ALB	04/17/25 17:49

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

Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Chavez GC C 1R

Job ID: 885-23206-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26





## Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-23206-1

Login Number: 23206

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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 5/7/2025 5:43:07 PM

## JOB DESCRIPTION

Chavez Gas Com C 1R

## JOB NUMBER

885-24044-1

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: Chavez Gas Com C 1R

Laboratory Job ID: 885-24044-1

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## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

## 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

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## Case Narrative

Client: Hilcorp Energy  
Project: Chavez Gas Com C 1R

Job ID: 885-24044-1

**Job ID: 885-24044-1**

**Eurofins Albuquerque**

### Job Narrative 885-24044-1

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 5/1/2025 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 5.5°C.

#### Gasoline Range Organics

Method 8015D\_GRO: Surrogate recovery for the following sample was outside control limits: PH01@12' (885-24044-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC VOA

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

#### Diesel Range Organics

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

#### HPLC/IC

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

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH01@11'

Lab Sample ID: 885-24044-1

Date Collected: 04/30/25 09:25

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/01/25 17:03	05/05/25 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	05/01/25 17:03	05/05/25 11:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/05/25 11:04	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/25 17:03	05/05/25 11:04	1
Toluene	ND		0.048	mg/Kg		05/01/25 17:03	05/05/25 11:04	1
Xylenes, Total	0.22		0.096	mg/Kg		05/01/25 17:03	05/05/25 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145	05/01/25 17:03	05/05/25 11:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/02/25 12:59	05/02/25 16:03	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/25 12:59	05/02/25 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134	05/02/25 12:59	05/02/25 16:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 13:15	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH01@12'

Lab Sample ID: 885-24044-2

Date Collected: 04/30/25 09:31

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	55		4.9	mg/Kg		05/01/25 17:03	05/02/25 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	35 - 166			05/01/25 17:03	05/02/25 13:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 13:30	1
Ethylbenzene	0.12		0.049	mg/Kg		05/01/25 17:03	05/02/25 13:30	1
Toluene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 13:30	1
Xylenes, Total	1.0		0.097	mg/Kg		05/01/25 17:03	05/02/25 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		48 - 145			05/01/25 17:03	05/02/25 13:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		9.3	mg/Kg		05/02/25 12:59	05/02/25 16:35	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/25 12:59	05/02/25 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/02/25 12:59	05/02/25 16:35	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 13:46	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH02@4'

Lab Sample ID: 885-24044-3

Date Collected: 04/30/25 09:44

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/01/25 17:03	05/02/25 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166	05/01/25 17:03	05/02/25 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 14:35	1
Ethylbenzene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 14:35	1
Toluene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 14:35	1
Xylenes, Total	ND		0.098	mg/Kg		05/01/25 17:03	05/02/25 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145	05/01/25 17:03	05/02/25 14:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/02/25 12:59	05/02/25 16:46	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:59	05/02/25 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134	05/02/25 12:59	05/02/25 16:46	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 13:57	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH02@10'

Lab Sample ID: 885-24044-4

Date Collected: 04/30/25 09:57

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/01/25 17:03	05/02/25 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166	05/01/25 17:03	05/02/25 14:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 14:56	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/25 17:03	05/02/25 14:56	1
Toluene	ND		0.048	mg/Kg		05/01/25 17:03	05/02/25 14:56	1
Xylenes, Total	ND		0.096	mg/Kg		05/01/25 17:03	05/02/25 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145	05/01/25 17:03	05/02/25 14:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/02/25 12:59	05/02/25 16:56	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/25 12:59	05/02/25 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134	05/02/25 12:59	05/02/25 16:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		05/02/25 11:06	05/02/25 14:07	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH03@4'

Lab Sample ID: 885-24044-5

Date Collected: 04/30/25 10:06

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		05/01/25 17:03	05/02/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166	05/01/25 17:03	05/02/25 15:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 15:18	1
Ethylbenzene	ND		0.047	mg/Kg		05/01/25 17:03	05/02/25 15:18	1
Toluene	ND		0.047	mg/Kg		05/01/25 17:03	05/02/25 15:18	1
Xylenes, Total	ND		0.095	mg/Kg		05/01/25 17:03	05/02/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145	05/01/25 17:03	05/02/25 15:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/02/25 12:59	05/02/25 17:07	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/25 12:59	05/02/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134	05/02/25 12:59	05/02/25 17:07	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		60	mg/Kg		05/02/25 11:06	05/02/25 14:17	20

Eurofins Albuquerque

## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH03@10'

Lab Sample ID: 885-24044-6

Date Collected: 04/30/25 10:15

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/01/25 17:03	05/02/25 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166	05/01/25 17:03	05/02/25 15:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 15:40	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/25 17:03	05/02/25 15:40	1
Toluene	ND		0.048	mg/Kg		05/01/25 17:03	05/02/25 15:40	1
Xylenes, Total	ND		0.096	mg/Kg		05/01/25 17:03	05/02/25 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145	05/01/25 17:03	05/02/25 15:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/02/25 12:59	05/02/25 17:18	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:59	05/02/25 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134	05/02/25 12:59	05/02/25 17:18	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		60	mg/Kg		05/02/25 11:06	05/02/25 14:28	20

Eurofins Albuquerque

## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH04@8'

Lab Sample ID: 885-24044-7

Date Collected: 04/30/25 10:45

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/01/25 17:03	05/02/25 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		35 - 166	05/01/25 17:03	05/02/25 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/25 17:03	05/02/25 16:01	1
Ethylbenzene	ND		0.050	mg/Kg		05/01/25 17:03	05/02/25 16:01	1
Toluene	ND		0.050	mg/Kg		05/01/25 17:03	05/02/25 16:01	1
Xylenes, Total	ND		0.10	mg/Kg		05/01/25 17:03	05/02/25 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145	05/01/25 17:03	05/02/25 16:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/02/25 12:59	05/02/25 17:28	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/02/25 12:59	05/02/25 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134	05/02/25 12:59	05/02/25 17:28	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 14:59	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH04@10'

Lab Sample ID: 885-24044-8

Date Collected: 04/30/25 10:52

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/01/25 17:03	05/02/25 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166	05/01/25 17:03	05/02/25 16:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 16:23	1
Ethylbenzene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 16:23	1
Toluene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 16:23	1
Xylenes, Total	ND		0.098	mg/Kg		05/01/25 17:03	05/02/25 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145	05/01/25 17:03	05/02/25 16:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/02/25 12:59	05/02/25 17:39	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:59	05/02/25 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134	05/02/25 12:59	05/02/25 17:39	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 15:09	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH05@8'

Lab Sample ID: 885-24044-9

Date Collected: 04/30/25 11:13

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		05/01/25 17:03	05/02/25 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166	05/01/25 17:03	05/02/25 16:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/01/25 17:03	05/02/25 16:45	1
Ethylbenzene	ND		0.046	mg/Kg		05/01/25 17:03	05/02/25 16:45	1
Toluene	ND		0.046	mg/Kg		05/01/25 17:03	05/02/25 16:45	1
Xylenes, Total	ND		0.093	mg/Kg		05/01/25 17:03	05/02/25 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145	05/01/25 17:03	05/02/25 16:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/02/25 12:59	05/02/25 18:01	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:59	05/02/25 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134	05/02/25 12:59	05/02/25 18:01	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		05/02/25 11:06	05/02/25 15:19	20

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## Client Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH05@10'

Lab Sample ID: 885-24044-10

Date Collected: 04/30/25 11:16

Matrix: Solid

Date Received: 05/01/25 07:10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/01/25 17:03	05/02/25 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/01/25 17:03	05/02/25 17:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 17:06	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/25 17:03	05/02/25 17:06	1
Toluene	ND		0.048	mg/Kg		05/01/25 17:03	05/02/25 17:06	1
Xylenes, Total	ND		0.095	mg/Kg		05/01/25 17:03	05/02/25 17:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/01/25 17:03	05/02/25 17:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/02/25 12:59	05/02/25 18:11	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:59	05/02/25 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/02/25 12:59	05/02/25 18:11	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		60	mg/Kg		05/02/25 11:06	05/02/25 15:30	20

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## QC Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

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

Lab Sample ID: MB 885-25372/1-A

Matrix: Solid

Analysis Batch: 25397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/01/25 17:03	05/02/25 11:41	1

Lab Sample ID: LCS 885-25372/2-A

Matrix: Solid

Analysis Batch: 25397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.7		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	211		35 - 166				

Lab Sample ID: 885-24044-1 MS

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: PH01@11'

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.0	31.8		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	226		35 - 166						

Lab Sample ID: 885-24044-1 MSD

Matrix: Solid

Analysis Batch: 25476

Client Sample ID: PH01@11'

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.3	31.8		mg/Kg		115	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	224		35 - 166								

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

Lab Sample ID: MB 885-25372/1-A

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Ethylbenzene	ND		0.050	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Toluene	ND		0.050	mg/Kg		05/01/25 17:03	05/02/25 11:41	1

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## QC Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

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

Lab Sample ID: MB 885-25372/1-A

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			05/01/25 17:03	05/02/25 11:41	1

Lab Sample ID: LCS 885-25372/3-A

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.03		mg/Kg		103	70 - 130
m&p-Xylene	2.00	2.10		mg/Kg		105	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.01		mg/Kg		101	70 - 130
Xylenes, Total	3.00	3.14		mg/Kg		105	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		48 - 145				

Lab Sample ID: 885-24044-2 MS

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: PH01@12'

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.972	1.04		mg/Kg		107	70 - 130
Ethylbenzene	0.12		0.972	1.09		mg/Kg		100	70 - 130
m&p-Xylene	0.87		1.94	2.58		mg/Kg		88	70 - 130
o-Xylene	0.13		0.972	1.12		mg/Kg		101	70 - 130
Toluene	ND		0.972	1.03		mg/Kg		106	70 - 130
Xylenes, Total	1.0		2.92	3.69		mg/Kg		92	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		48 - 145						

Lab Sample ID: 885-24044-2 MSD

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: PH01@12'

Prep Type: Total/NA

Prep Batch: 25372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.962	1.02		mg/Kg		106	70 - 130	2	20
Ethylbenzene	0.12		0.962	1.08		mg/Kg		100	70 - 130	1	20
m&p-Xylene	0.87		1.92	2.51		mg/Kg		85	70 - 130	2	20
o-Xylene	0.13		0.962	1.10		mg/Kg		101	70 - 130	1	20
Toluene	ND		0.962	1.01		mg/Kg		105	70 - 130	2	20
Xylenes, Total	1.0		2.89	3.62		mg/Kg		90	70 - 130	2	20

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## QC Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

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

Lab Sample ID: 885-24044-2 MSD

Matrix: Solid

Analysis Batch: 25398

Client Sample ID: PH01@12'

Prep Type: Total/NA

Prep Batch: 25372

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		48 - 145

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

Lab Sample ID: MB 885-25426/1-A

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25426

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/25 12:59	05/02/25 15:41	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:59	05/02/25 15:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/02/25 12:59	05/02/25 15:41	1

Lab Sample ID: LCS 885-25426/2-A

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	51.3		mg/Kg		103	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	104		62 - 134				

Lab Sample ID: 885-24044-1 MS

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: PH01@11'

Prep Type: Total/NA

Prep Batch: 25426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.2	56.4		mg/Kg		119	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	112		62 - 134						

Lab Sample ID: 885-24044-1 MSD

Matrix: Solid

Analysis Batch: 25385

Client Sample ID: PH01@11'

Prep Type: Total/NA

Prep Batch: 25426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.3	52.9		mg/Kg		114	44 - 136	6	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	112		62 - 134								

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## QC Sample Results

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25414/1-A  
Matrix: Solid  
Analysis Batch: 25422

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 25414

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		05/02/25 11:06	05/02/25 12:37	1

Lab Sample ID: LCS 885-25414/2-A  
Matrix: Solid  
Analysis Batch: 25422

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 25414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.1		mg/Kg		97	90 - 110

Lab Sample ID: 885-24044-1 MS  
Matrix: Solid  
Analysis Batch: 25422

Client Sample ID: PH01@11'  
Prep Type: Total/NA  
Prep Batch: 25414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.8	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-24044-1 MSD  
Matrix: Solid  
Analysis Batch: 25422

Client Sample ID: PH01@11'  
Prep Type: Total/NA  
Prep Batch: 25414

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

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## QC Association Summary

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

## GC VOA

## Prep Batch: 25372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	5030C	
885-24044-2	PH01@12'	Total/NA	Solid	5030C	
885-24044-3	PH02@4'	Total/NA	Solid	5030C	
885-24044-4	PH02@10'	Total/NA	Solid	5030C	
885-24044-5	PH03@4'	Total/NA	Solid	5030C	
885-24044-6	PH03@10'	Total/NA	Solid	5030C	
885-24044-7	PH04@8'	Total/NA	Solid	5030C	
885-24044-8	PH04@10'	Total/NA	Solid	5030C	
885-24044-9	PH05@8'	Total/NA	Solid	5030C	
885-24044-10	PH05@10'	Total/NA	Solid	5030C	
MB 885-25372/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25372/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25372/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24044-1 MS	PH01@11'	Total/NA	Solid	5030C	
885-24044-1 MSD	PH01@11'	Total/NA	Solid	5030C	
885-24044-2 MS	PH01@12'	Total/NA	Solid	5030C	
885-24044-2 MSD	PH01@12'	Total/NA	Solid	5030C	

## Analysis Batch: 25397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-2	PH01@12'	Total/NA	Solid	8015M/D	25372
885-24044-3	PH02@4'	Total/NA	Solid	8015M/D	25372
885-24044-4	PH02@10'	Total/NA	Solid	8015M/D	25372
885-24044-5	PH03@4'	Total/NA	Solid	8015M/D	25372
885-24044-6	PH03@10'	Total/NA	Solid	8015M/D	25372
885-24044-7	PH04@8'	Total/NA	Solid	8015M/D	25372
885-24044-8	PH04@10'	Total/NA	Solid	8015M/D	25372
885-24044-9	PH05@8'	Total/NA	Solid	8015M/D	25372
885-24044-10	PH05@10'	Total/NA	Solid	8015M/D	25372
MB 885-25372/1-A	Method Blank	Total/NA	Solid	8015M/D	25372
LCS 885-25372/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25372

## Analysis Batch: 25398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-2	PH01@12'	Total/NA	Solid	8021B	25372
885-24044-3	PH02@4'	Total/NA	Solid	8021B	25372
885-24044-4	PH02@10'	Total/NA	Solid	8021B	25372
885-24044-5	PH03@4'	Total/NA	Solid	8021B	25372
885-24044-6	PH03@10'	Total/NA	Solid	8021B	25372
885-24044-7	PH04@8'	Total/NA	Solid	8021B	25372
885-24044-8	PH04@10'	Total/NA	Solid	8021B	25372
885-24044-9	PH05@8'	Total/NA	Solid	8021B	25372
885-24044-10	PH05@10'	Total/NA	Solid	8021B	25372
MB 885-25372/1-A	Method Blank	Total/NA	Solid	8021B	25372
LCS 885-25372/3-A	Lab Control Sample	Total/NA	Solid	8021B	25372
885-24044-2 MS	PH01@12'	Total/NA	Solid	8021B	25372
885-24044-2 MSD	PH01@12'	Total/NA	Solid	8021B	25372

## Analysis Batch: 25476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	8015M/D	25372

Eurofins Albuquerque



## QC Association Summary

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

## GC VOA (Continued)

## Analysis Batch: 25476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1 MS	PH01@11'	Total/NA	Solid	8015M/D	25372
885-24044-1 MSD	PH01@11'	Total/NA	Solid	8015M/D	25372

## Analysis Batch: 25477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	8021B	25372

## GC Semi VOA

## Analysis Batch: 25385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	8015M/D	25426
885-24044-2	PH01@12'	Total/NA	Solid	8015M/D	25426
885-24044-3	PH02@4'	Total/NA	Solid	8015M/D	25426
885-24044-4	PH02@10'	Total/NA	Solid	8015M/D	25426
885-24044-5	PH03@4'	Total/NA	Solid	8015M/D	25426
885-24044-6	PH03@10'	Total/NA	Solid	8015M/D	25426
885-24044-7	PH04@8'	Total/NA	Solid	8015M/D	25426
885-24044-8	PH04@10'	Total/NA	Solid	8015M/D	25426
885-24044-9	PH05@8'	Total/NA	Solid	8015M/D	25426
885-24044-10	PH05@10'	Total/NA	Solid	8015M/D	25426
MB 885-25426/1-A	Method Blank	Total/NA	Solid	8015M/D	25426
LCS 885-25426/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25426
885-24044-1 MS	PH01@11'	Total/NA	Solid	8015M/D	25426
885-24044-1 MSD	PH01@11'	Total/NA	Solid	8015M/D	25426

## Prep Batch: 25426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	SHAKE	
885-24044-2	PH01@12'	Total/NA	Solid	SHAKE	
885-24044-3	PH02@4'	Total/NA	Solid	SHAKE	
885-24044-4	PH02@10'	Total/NA	Solid	SHAKE	
885-24044-5	PH03@4'	Total/NA	Solid	SHAKE	
885-24044-6	PH03@10'	Total/NA	Solid	SHAKE	
885-24044-7	PH04@8'	Total/NA	Solid	SHAKE	
885-24044-8	PH04@10'	Total/NA	Solid	SHAKE	
885-24044-9	PH05@8'	Total/NA	Solid	SHAKE	
885-24044-10	PH05@10'	Total/NA	Solid	SHAKE	
MB 885-25426/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25426/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-24044-1 MS	PH01@11'	Total/NA	Solid	SHAKE	
885-24044-1 MSD	PH01@11'	Total/NA	Solid	SHAKE	

## HPLC/IC

## Prep Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	300_Prep	
885-24044-2	PH01@12'	Total/NA	Solid	300_Prep	
885-24044-3	PH02@4'	Total/NA	Solid	300_Prep	
885-24044-4	PH02@10'	Total/NA	Solid	300_Prep	
885-24044-5	PH03@4'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

## QC Association Summary

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

## HPLC/IC (Continued)

## Prep Batch: 25414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-6	PH03@10'	Total/NA	Solid	300_Prep	
885-24044-7	PH04@8'	Total/NA	Solid	300_Prep	
885-24044-8	PH04@10'	Total/NA	Solid	300_Prep	
885-24044-9	PH05@8'	Total/NA	Solid	300_Prep	
885-24044-10	PH05@10'	Total/NA	Solid	300_Prep	
MB 885-25414/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25414/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24044-1 MS	PH01@11'	Total/NA	Solid	300_Prep	
885-24044-1 MSD	PH01@11'	Total/NA	Solid	300_Prep	

## Analysis Batch: 25422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24044-1	PH01@11'	Total/NA	Solid	300.0	25414
885-24044-2	PH01@12'	Total/NA	Solid	300.0	25414
885-24044-3	PH02@4'	Total/NA	Solid	300.0	25414
885-24044-4	PH02@10'	Total/NA	Solid	300.0	25414
885-24044-5	PH03@4'	Total/NA	Solid	300.0	25414
885-24044-6	PH03@10'	Total/NA	Solid	300.0	25414
885-24044-7	PH04@8'	Total/NA	Solid	300.0	25414
885-24044-8	PH04@10'	Total/NA	Solid	300.0	25414
885-24044-9	PH05@8'	Total/NA	Solid	300.0	25414
885-24044-10	PH05@10'	Total/NA	Solid	300.0	25414
MB 885-25414/1-A	Method Blank	Total/NA	Solid	300.0	25414
LCS 885-25414/2-A	Lab Control Sample	Total/NA	Solid	300.0	25414
885-24044-1 MS	PH01@11'	Total/NA	Solid	300.0	25414
885-24044-1 MSD	PH01@11'	Total/NA	Solid	300.0	25414

Eurofins Albuquerque

## Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH01@11'

Lab Sample ID: 885-24044-1

Date Collected: 04/30/25 09:25

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25476	AT	EET ALB	05/05/25 11:04
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25477	AT	EET ALB	05/05/25 11:04
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 16:03
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 13:15

Client Sample ID: PH01@12'

Lab Sample ID: 885-24044-2

Date Collected: 04/30/25 09:31

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 13:30
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 13:30
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 16:35
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 13:46

Client Sample ID: PH02@4'

Lab Sample ID: 885-24044-3

Date Collected: 04/30/25 09:44

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 14:35
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 14:35
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 16:46
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 13:57

Client Sample ID: PH02@10'

Lab Sample ID: 885-24044-4

Date Collected: 04/30/25 09:57

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 14:56

Eurofins Albuquerque

## Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH02@10'

Lab Sample ID: 885-24044-4

Date Collected: 04/30/25 09:57

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 14:56
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 16:56
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 14:07

Client Sample ID: PH03@4'

Lab Sample ID: 885-24044-5

Date Collected: 04/30/25 10:06

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 15:18
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 15:18
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 17:07
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 14:17

Client Sample ID: PH03@10'

Lab Sample ID: 885-24044-6

Date Collected: 04/30/25 10:15

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 15:40
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 15:40
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 17:18
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 14:28

Client Sample ID: PH04@8'

Lab Sample ID: 885-24044-7

Date Collected: 04/30/25 10:45

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 16:01
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 16:01

Eurofins Albuquerque

## Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Client Sample ID: PH04@8'

Lab Sample ID: 885-24044-7

Date Collected: 04/30/25 10:45

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 17:28
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 14:59

Client Sample ID: PH04@10'

Lab Sample ID: 885-24044-8

Date Collected: 04/30/25 10:52

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 16:23
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 16:23
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 17:39
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 15:09

Client Sample ID: PH05@8'

Lab Sample ID: 885-24044-9

Date Collected: 04/30/25 11:13

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 16:45
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 16:45
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 18:01
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 15:19

Client Sample ID: PH05@10'

Lab Sample ID: 885-24044-10

Date Collected: 04/30/25 11:16

Matrix: Solid

Date Received: 05/01/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 17:06
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 17:06
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 18:11

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

**Client Sample ID: PH05@10'**  
**Date Collected: 04/30/25 11:16**  
**Date Received: 05/01/25 07:10**

**Lab Sample ID: 885-24044-10**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 15:30

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

- 1
- 2
- 3
- 4
- 5
- 6
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- 11

Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: Chavez Gas Com C 1R

Job ID: 885-24044-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

## Chain-of-Custody Record

Turn-Around Time:

5 days

☒ Standard ☐ Rush

Client:

Hilcorp

Project Name:

Chavez Gas Com C IR

Mailing Address:

Mitch Killough

Project #:

Stuart Hyde  
shyde@ensolum.com

Phone #:

email or Fax#: mkillough@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Sampler: Tracey D + Osgood F

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.3 + 0.2 = 5.5 (°C)

Container  
Type and #Preservative  
Type

HEAL No.

Date Time Matrix Sample Name

Date	Time	Matrix	Sample Name
4/30/25	0925	soil	PH01@11'
	0931		PH01@12'
	0944		PH02@4'
	0957		PH02@10'
	1006		PH03@4'
	1015		PH03@10'
	1045		PH04@8'
	1052		PH04@10'
	1113		PH05@8'
	1116		PH05@10'

one 4 oz

on ice

Relinquished by

Received by

Via

Date Time

Date Time

Relinquished by

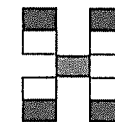
Date Time

Relinquished by

Received by

Via

Date Time

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request



885-24044 COC

8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CL, K, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Remarks: cc : ofroelich@ensolum.com  
tdembrowski@ensolum.com

For NMOC

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: 885-24044-1

Login Number: 24044

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Report to:  
Mitch Killough



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Hilcorp Energy Co

Project Name: Chavez Gas Com C 1 R

Work Order: E505304

Job Number: 17051-0002

Received: 5/28/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/4/25

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

Date Reported: 6/4/25

Mitch Killough  
PO Box 61529  
Houston, TX 77208



Project Name: Chavez Gas Com C 1 R  
Workorder: E505304  
Date Received: 5/28/2025 3:45:00PM

Mitch Killough,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2025 3:45:00PM, under the Project Name: Chavez Gas Com C 1 R.

The analytical test results summarized in this report with the Project Name: Chavez Gas Com C 1 R apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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Sample Summary

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	06/04/25 11:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01	E505304-01A	Soil	05/28/25	05/28/25	Glass Jar, 4 oz.
FS02	E505304-02A	Soil	05/28/25	05/28/25	Glass Jar, 4 oz.
SW01	E505304-03A	Soil	05/28/25	05/28/25	Glass Jar, 4 oz.
SW02	E505304-04A	Soil	05/28/25	05/28/25	Glass Jar, 4 oz.
SW03	E505304-05A	Soil	05/28/25	05/28/25	Glass Jar, 4 oz.
SW04	E505304-06A	Soil	05/28/25	05/28/25	Glass Jar, 4 oz.



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Mitch Killough

**Reported:**  
6/4/2025 11:36:49AM

### FS01

#### E505304-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Benzene	ND	0.0250	1	05/30/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/30/25	05/30/25	
Toluene	ND	0.0250	1	05/30/25	05/30/25	
o-Xylene	ND	0.0250	1	05/30/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/30/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/30/25	05/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/25	05/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2523017	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/02/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	06/02/25	06/02/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2523027	
Chloride	137	20.0	1	06/02/25	06/02/25	





## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Mitch Killough

**Reported:**  
6/4/2025 11:36:49AM

## FS02

## E505304-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Benzene	ND	0.0250	1	05/30/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/30/25	05/30/25	
Toluene	ND	0.0250	1	05/30/25	05/30/25	
o-Xylene	ND	0.0250	1	05/30/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/30/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/30/25	05/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/25	05/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2523017	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/02/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	06/02/25	06/02/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2523027	
Chloride	ND	20.0	1	06/02/25	06/02/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Mitch Killough

**Reported:**  
6/4/2025 11:36:49AM

## SW01

## E505304-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2522080
Benzene	ND	0.0250	1	05/30/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/30/25	05/30/25	
Toluene	ND	0.0250	1	05/30/25	05/30/25	
o-Xylene	ND	0.0250	1	05/30/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/30/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/30/25	05/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.7 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2522080
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/25	05/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2523017
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/02/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	06/02/25	06/02/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2523027
Chloride	423	40.0	2	06/02/25	06/02/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Mitch Killough

**Reported:**  
6/4/2025 11:36:49AM

## SW02

## E505304-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Benzene	ND	0.0250	1	05/30/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/30/25	05/30/25	
Toluene	ND	0.0250	1	05/30/25	05/30/25	
o-Xylene	ND	0.0250	1	05/30/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/30/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/30/25	05/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.5 %	70-130		05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/25	05/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.2 %	70-130		05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2523017	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/02/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		06/02/25	06/02/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2523027	
Chloride	ND	20.0	1	06/02/25	06/02/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Mitch Killough

**Reported:**  
6/4/2025 11:36:49AM

## SW03

## E505304-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Benzene	ND	0.0250	1	05/30/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/30/25	05/30/25	
Toluene	ND	0.0250	1	05/30/25	05/30/25	
o-Xylene	ND	0.0250	1	05/30/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/30/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/30/25	05/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/25	05/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2523017	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/02/25	
<i>Surrogate: n-Nonane</i>						
	106 %	61-141		06/02/25	06/02/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2523027	
Chloride	92.9	40.0	2	06/02/25	06/02/25	



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Mitch Killough

**Reported:**  
6/4/2025 11:36:49AM

## SW04

## E505304-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Benzene	ND	0.0250	1	05/30/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/30/25	05/30/25	
Toluene	ND	0.0250	1	05/30/25	05/30/25	
o-Xylene	ND	0.0250	1	05/30/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/30/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/30/25	05/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.6 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2522080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/25	05/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	05/30/25	05/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2523017	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/25	06/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/25	06/02/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	06/02/25	06/02/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2523027	
Chloride	1010	40.0	2	06/02/25	06/02/25	



QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	6/4/2025 11:36:49AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2522080-BLK1)Prepared: 05/30/25 Analyzed: 05/30/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

LCS (2522080-BS1)Prepared: 05/30/25 Analyzed: 05/30/25

Benzene	4.99	0.0250	5.00		99.9	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130			

Matrix Spike (2522080-MS1)Source: E505304-04Prepared: 05/30/25 Analyzed: 05/30/25

Benzene	5.06	0.0250	5.00	ND	101	70-130			
Ethylbenzene	5.12	0.0250	5.00	ND	102	70-130			
Toluene	5.12	0.0250	5.00	ND	102	70-130			
o-Xylene	5.09	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2522080-MSD1)Source: E505304-04Prepared: 05/30/25 Analyzed: 05/30/25

Benzene	4.72	0.0250	5.00	ND	94.5	70-130	6.95	27	
Ethylbenzene	4.79	0.0250	5.00	ND	95.7	70-130	6.70	26	
Toluene	4.78	0.0250	5.00	ND	95.7	70-130	6.76	20	
o-Xylene	4.77	0.0250	5.00	ND	95.3	70-130	6.49	25	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	70-130	6.45	23	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	70-130	6.47	26	
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			





QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	6/4/2025 11:36:49AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2522080-BLK1) Prepared: 05/30/25 Analyzed: 05/30/25

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

LCS (2522080-BS2) Prepared: 05/30/25 Analyzed: 05/30/25

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2522080-MS2) Source: E505304-04 Prepared: 05/30/25 Analyzed: 05/30/25

Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			

Matrix Spike Dup (2522080-MSD2) Source: E505304-04 Prepared: 05/30/25 Analyzed: 05/30/25

Gasoline Range Organics (C6-C10)	56.1	20.0	50.0	ND	112	70-130	1.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	6/4/2025 11:36:49AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523017-BLK1)					Prepared: 06/02/25 Analyzed: 06/02/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.3		50.0		103	61-141			

LCS (2523017-BS1)					Prepared: 06/02/25 Analyzed: 06/02/25				
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	50.6		50.0		101	61-141			

Matrix Spike (2523017-MS1)					Source: E505304-02		Prepared: 06/02/25 Analyzed: 06/02/25		
Diesel Range Organics (C10-C28)	294	25.0	250	ND	117	56-156			
Surrogate: n-Nonane	53.9		50.0		108	61-141			

Matrix Spike Dup (2523017-MSD1)					Source: E505304-02		Prepared: 06/02/25 Analyzed: 06/02/25		
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	56-156	3.98	20	
Surrogate: n-Nonane	52.4		50.0		105	61-141			



QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Mitch Killough	6/4/2025 11:36:49AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2523027-BLK1)					Prepared: 06/02/25 Analyzed: 06/02/25				
Chloride	ND	20.0							
LCS (2523027-BS1)					Prepared: 06/02/25 Analyzed: 06/02/25				
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2523027-MS1)					Source: E505304-04		Prepared: 06/02/25 Analyzed: 06/02/25		
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2523027-MSD1)					Source: E505304-04		Prepared: 06/02/25 Analyzed: 06/02/25		
Chloride	265	20.0	250	ND	106	80-120	0.253	20	

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



Definitions and Notes

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Mitch Killough	06/04/25 11:36

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Hilcorp				Company:				Lab WO# E505304				Job Number 17051-0002				1D 2D 3D Std							
Project Name: Chavez Gas Cam C.I.R				Address:												NM CO UT TX							
Project Manager: Mitch Mc Killough				City, State, Zip:																			
Address:				Phone:																			
City, State, Zip:				Email:																			
Phone:				Miscellaneous:																			
Email: mkillough@hilcorp.com																							
Sample Information												Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA					
1410	5/28/25	soil	1-4oz	FS01		1	X	X	X		X												
1413				FS02		2																	
1415				SW01		3																	
1418				SW02		4																	
1423				SW03		5																	
1425				SW04		6																	
Additional Instructions: Please cc: Stuart Hyde shyde@ensolum.com, Tracy Dembrowski tdembrowski@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Tracy Dembrowski																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: (Y) N T1 T2 T3 AVG Temp °C															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

## Envirotech Analytical Laboratory

Printed: 5/29/2025 12:48:08PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Hilcorp Energy Co	Date Received:	05/28/25 15:45	Work Order ID:	E505304
Phone:	-	Date Logged In:	05/29/25 12:45	Logged In By:	Caitlin Mars
Email:	mkillough@hilcorp.com	Due Date:	06/04/25 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

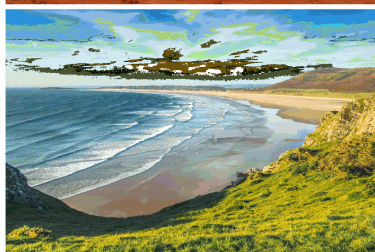
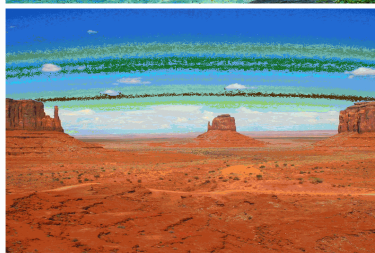
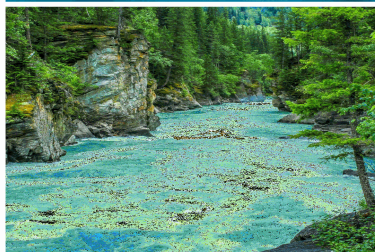
Date



envirotech Inc.



Report to:  
Wes Weichert



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Hilcorp Energy Co

Project Name: Chavez Gas Com C 1 R

Work Order: E506077

Job Number: 17051-0002

Received: 6/11/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/19/25

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

Date Reported: 6/19/25

Wes Weichert  
PO Box 61529  
Houston, TX 77208



Project Name: Chavez Gas Com C 1 R  
Workorder: E506077  
Date Received: 6/11/2025 11:48:00AM

Wes Weichert,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/11/2025 11:48:00AM, under the Project Name: Chavez Gas Com C 1 R.

The analytical test results summarized in this report with the Project Name: Chavez Gas Com C 1 R apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	06/19/25 15:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW05	E506077-01A	Soil	06/11/25	06/11/25	Glass Jar, 4 oz.



Case Narrative:

Project Name: Chavez Gas Com C 1 R

Workorder:E506077

Date Received: 06/11/25 11:48

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
SW05	E506077-01A	DRO/ORO by 8015

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



## Sample Data

Hilcorp Energy Co  
PO Box 61529  
Houston TX, 77208

Project Name: Chavez Gas Com C 1 R  
Project Number: 17051-0002  
Project Manager: Wes Weichert

**Reported:**  
6/19/2025 3:09:18PM

## SW05

## E506077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2524088	
Benzene	ND	0.0250	1	06/12/25	06/13/25	
Ethylbenzene	ND	0.0250	1	06/12/25	06/13/25	
Toluene	ND	0.0250	1	06/12/25	06/13/25	
o-Xylene	ND	0.0250	1	06/12/25	06/13/25	
p,m-Xylene	ND	0.0500	1	06/12/25	06/13/25	
Total Xylenes	ND	0.0250	1	06/12/25	06/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		06/12/25	06/13/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2524088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/25	06/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		06/12/25	06/13/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2525059	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
<i>Surrogate: n-Nonane</i>						
	106 %	61-141		06/17/25	06/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2524084	
Chloride	92.1	40.0	2	06/12/25	06/12/25	



## QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	6/19/2025 3:09:18PM

## Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2524088-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

## LCS (2524088-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	5.45	0.0250	5.00		109	70-130			
Ethylbenzene	5.36	0.0250	5.00		107	70-130			
Toluene	5.42	0.0250	5.00		108	70-130			
o-Xylene	5.28	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		101	70-130			

## Matrix Spike (2524088-MS1)

Source: E506085-02

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	5.61	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.53	0.0250	5.00	ND	111	70-130			
Toluene	5.58	0.0250	5.00	ND	111	70-130			
o-Xylene	5.44	0.0250	5.00	ND	109	70-130			
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130			
Total Xylenes	16.6	0.0250	15.0	ND	110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

## Matrix Spike Dup (2524088-MSD1)

Source: E506085-02

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	5.51	0.0250	5.00	ND	110	70-130	1.70	27	
Ethylbenzene	5.43	0.0250	5.00	ND	109	70-130	1.72	26	
Toluene	5.48	0.0250	5.00	ND	110	70-130	1.66	20	
o-Xylene	5.35	0.0250	5.00	ND	107	70-130	1.72	25	
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130	1.71	23	
Total Xylenes	16.3	0.0250	15.0	ND	109	70-130	1.71	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			





QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	6/19/2025 3:09:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

<b>Blank (2524088-BLK1)</b>					Prepared: 06/12/25 Analyzed: 06/13/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

<b>LCS (2524088-BS2)</b>					Prepared: 06/12/25 Analyzed: 06/13/25				
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

<b>Matrix Spike (2524088-MS2)</b>					<b>Source: E506085-02</b>		Prepared: 06/12/25 Analyzed: 06/13/25		
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

<b>Matrix Spike Dup (2524088-MSD2)</b>					<b>Source: E506085-02</b>		Prepared: 06/12/25 Analyzed: 06/13/25		
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.7	70-130	0.875	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			



QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	6/19/2025 3:09:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2525059-BLK1)					Prepared: 06/17/25 Analyzed: 06/19/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.4	61-141			

LCS (2525059-BS1)					Prepared: 06/17/25 Analyzed: 06/19/25				
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	66-144			
Surrogate: n-Nonane	47.4		50.0		94.7	61-141			

Matrix Spike (2525059-MS1)					Source: E506131-04		Prepared: 06/17/25 Analyzed: 06/19/25		
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156			
Surrogate: n-Nonane	50.1		50.0		100	61-141			

Matrix Spike Dup (2525059-MSD1)					Source: E506131-04		Prepared: 06/17/25 Analyzed: 06/19/25		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.6	56-156	1.72	20	
Surrogate: n-Nonane	49.5		50.0		99.0	61-141			



QC Summary Data

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Wes Weichert	6/19/2025 3:09:18PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2524084-BLK1)					Prepared: 06/12/25 Analyzed: 06/12/25				
Chloride	ND	20.0							
LCS (2524084-BS1)					Prepared: 06/12/25 Analyzed: 06/12/25				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2524084-MS1)					Source: E506069-05		Prepared: 06/12/25 Analyzed: 06/12/25		
Chloride	382	20.0	250	176	82.6	80-120			
Matrix Spike Dup (2524084-MSD1)					Source: E506069-05		Prepared: 06/12/25 Analyzed: 06/12/25		
Chloride	398	20.0	250	176	88.9	80-120	4.06	20	

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

Definitions and Notes

Hilcorp Energy Co	Project Name:	Chavez Gas Com C 1 R	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Wes Weichert	06/19/25 15:09

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Page 12 of 14

## Envirotech Analytical Laboratory

Printed: 6/11/2025 12:05:30PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Hilcorp Energy Co	Date Received:	06/11/25 11:48	Work Order ID:	E506077
Phone:	-	Date Logged In:	06/11/25 11:57	Logged In By:	Noe Soto
Email:	wwweichert@ensolum.com	Due Date:	06/18/25 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Zach MyersComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



[illegible]





## APPENDIX B

### Agency Sampling Notifications

---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Stuart Hyde](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 466283  
**Date:** Thursday, May 22, 2025 9:36:37 AM

---

[ \*\*EXTERNAL EMAIL\*\* ]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2514041145.

The sampling event is expected to take place:

**When:** 05/28/2025 @ 09:30

**Where:** J-23-29N-10W 1590 FSL 1590 FEL (36.708508,-107.85033)

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

**Additional Instructions:** Chavez Gas Com C 1R, site coordinates 36.70861, -107.85202

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Stuart Hyde](#)  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 471681  
**Date:** Friday, June 6, 2025 1:42:19 PM

---

[ \*\*EXTERNAL EMAIL\*\* ]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2514041145.

The sampling event is expected to take place:

**When:** 06/11/2025 @ 09:00

**Where:** J-23-29N-10W 1590 FSL 1590 FEL (36.708508,-107.85033)

**Additional Information:** Contact PM Wes Weichert

**Additional Instructions:** Chavez Gas Com C 1R (30-045-23162) GPS: 36.70861, -107.85202

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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



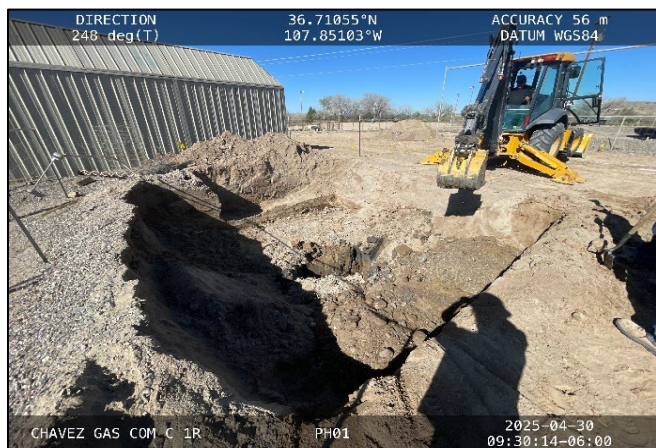
## APPENDIX C

### Photographic Log

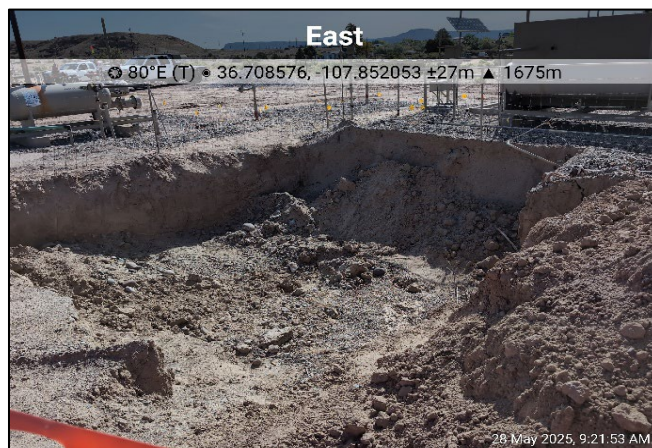
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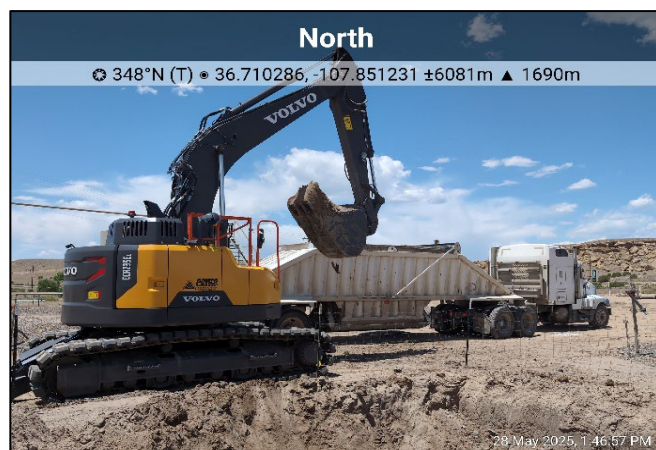
**Photographic Log**  
Hilcorp Energy Company  
Chavez Gas Com C 1R  
San Juan County, New Mexico



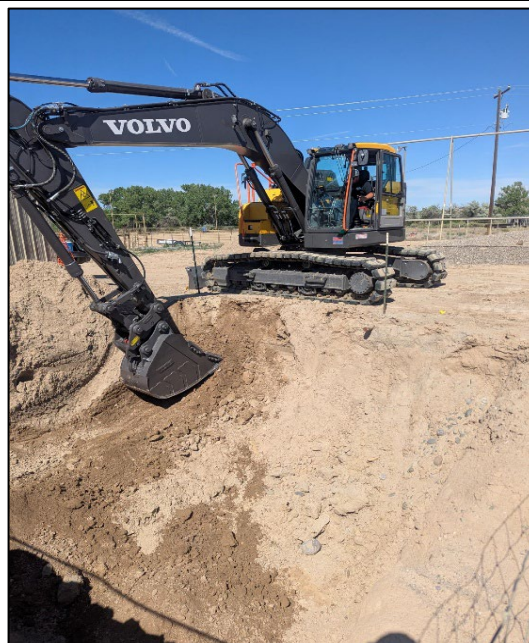
Photograph: 1 Date: 4/30/2025  
Description: Advancing Pothole PH01  
View: West



Photograph: 2 Date: 5/28/2025  
Description: Beginning excavation activities  
View: East



Photograph: 3 Date: 5/28/2025  
Description: Excavation activities  
View: North



Photograph: 4 Date: 6/11/2025  
Description: Additional removal from west sidewall  
View: West

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

QUESTIONS

Action 484418

**QUESTIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2514041145
Incident Name	NAPP2514041145 CHAVEZ GAS COM C 1R @ 30-045-23162
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-045-23162] CHAVEZ GAS COM C #001R

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Chavez Gas Com C 1R
Date Release Discovered	05/07/2025
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other   Tank (Any)   Produced Water   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Historical release discovered during the permanent removal of a below-grade tank (BGT). All further work on this project will be carried out in accordance with 19.15.29 NMAC.



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QUESTIONS, Page 2

Action 484418

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/14/2025
--	--



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QUESTIONS, Page 3

Action 484418

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 300 and 500 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1010
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6743
GRO+DRO (EPA SW-846 Method 8015M)	6690
BTEX (EPA SW-846 Method 8021B or 8260B)	516
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	05/28/2025
On what date will (or did) the final sampling or liner inspection occur	06/11/2025
On what date will (or was) the remediation complete(d)	06/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	59
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 484418

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	ENVIROTECH LANDFARM #2 [FEEM0112336756]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 484418

QUESTIONS (continued)

Operator:  HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID:  372171
	Action Number:  484418
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 484418

**QUESTIONS (continued)**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	471681
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	400
What was the total volume (cubic yards) remediated	59
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 07/14/2025

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QUESTIONS, Page 7

Action 484418

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 484418

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 484418
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/12/2025